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LIST OF THE MARINE AND FRESH-WATER INVERTEBRATE FAUNA OF PORT JACKSON AND THE NEIGHBOURHOOD.

By THOMAS WHITELEGGE, F.R.M.S.

[*Read before the Royal Society of N.S.W., July 3, 1889.*]

THE following list, although in the main a compilation, contains the result of some years observation and research. The subject is a wide one and almost too much for any one person to accomplish single handed, however I have attempted to bring together all that is known in reference to our somewhat neglected invertebrate fauna, and in doing so I have made use of all the published matter relating thereto that I have been able to collect together. Owing to the scattered nature of the literature and a scarcity of books bearing on the subject, this has been no easy task. In most cases I have, when possible, consulted the original works for references, but in many instances, the quotations are second hand from the fact that the books are not in the colony. Especial pains have been taken to verify and check the references to render them reliable. The greatest difficulty I have had to contend with, has been the want of works of reference and the amount of unworked

material, which had to be examined before I could proceed, and I may say that the greater part of my time has been spent in working out species, many of them very common but never hitherto determined.

The Foraminifera, Infusoria, Alcyonaria, Actinidæ, Hydroida, Echinodermata and Polyzoa in the Marine part, and the Rhizopoda, Infusoria, and Rotifera in the Fresh-water portion of this list will, if attentively examined, show to some extent the amount of work accomplished in this direction. Besides the unworked material, there were a large number of described species recorded as occurring in Port Jackson, but they have not been observed since their original discovery. As regards these I have made strict search in likely localities, and in many cases was successful in finding species obtained by some of the early naturalists who visited our coast. I have also made many special journeys, so as to be enabled to give a definite habitat for some of the more interesting species.

The classification generally followed in the arrangement of the subject is that given in Claus and Sedgwick's Text Book of Zoology, and in the various classes I have taken as near as possible, that used by acknowledged authorities or specialists in each branch. After each species enumerated there follows one or more references to the book or paper in which a description may be found, with the number of the volume, page, plate, figure and the habitat or locality where each species may be obtained.

The Foraminifera are well represented in our waters by 127 species, and from what I have seen I believe there are still large additions to be made in this very interesting field of observation.

The Radiolaria are few in number and comparatively rare, I have seen about four species, obtained in the tow net near the Heads.

Our Marine Infusorian fauna appears to have been wholly overlooked in that I have failed thus far to find any papers dealing with them, and the few mentioned in this list are what I have seen when examining other objects. Seven species are herein recorded.

The Sponge Fauna of Port Jackson has had a considerable amount of attention, and the results are to be found in the Catalogue of Sponges in the Australian Museum, by Dr. R. von Lendenfeld, in the various Challenger Reports by Polejaeff, Vosmaer, Messrs. Ridley and Dendy, and in the Zoology of the "Alert" by S. O. Ridley. Most of the Sponges in the Australian Museum have been obtained through the liberality of the trustees of that Institution, who have provided funds for systematic dredging and trawling for many years past. These operations under the able direction of Dr. Ramsay, the Curator, have yielded valuable

results, not only in sponges, but in many other branches of marine zoology, and great credit is due to Dr. Ramsay for his efforts in this direction, the material collected by him having provided a rich field of investigation to Dr. Lendenfeld.

The Alcyonarian corals, embracing the Gorgonias and Pennatulas are fairly represented, 29 species being enumerated. What little has been done in this order is however very scattered and fragmentary, and the descriptions are imperfect in most instances thereby rendering identification very difficult. The same remarks apply to the Actinidæ, so far I have only seen the descriptions of four species, and great difficulty was met with in dealing with this section ; a list of 10 species is given, but I believe we have some 20 species readily obtainable.

The corals have been mostly worked out by the late Rev. J. E. Tenison-Woods, and considering our geographical position, muster very fairly with 13 species, which will, no doubt, be largely added to when systematic dredging is carried on in deep water outside the harbour. *Plesiastraea Urvillei* and *Cylicia quinaria* may be said to be fairly common in many parts of Port Jackson, whilst the rest are rare, and only met with occasionally.

The Hydroid Zoophytes have been dealt with by Mr. Bale and Dr. Lendenfeld in publications issued by the Australian Museum, and there is still room for more workers in this very interesting group. During 1886 I devoted a few weeks to collecting Hydroids with highly satisfactory results ; amongst those collected were 12 new species besides some additions to the known fauna. Quite recently, I found about seven species new to our coast, and six or seven new to science ; this shows that in a field, comparatively speaking well worked, there is still a vast amount of investigation to be done.

The Siphonophora, including the Velella and Portuguese Men of War are represented by seven species ; the Scyphomedusæ, to which order the Jelly-fish belong, by seven species and the Ctenophora, by two species.

The Crinoidea or feather stars are not very numerous, five species only being known from Port Jackson, two of which are common. The Ophiuroidea are well represented by 35 species, many of them being fairly common under stones in various parts of the harbour.

The Asteroidea number 30 species, and amongst them are many very interesting forms, one in particular being remarkable, in that it inhabits the zone between high and low water mark, and is never seen below ordinary low tide line. Moreover, there is an exceptional phase in the development of the young, for the eggs are deposited under stones in little rock pools and the young when hatched out never leave the spot until they assume the adult form,

thus offering a fit subject for study to the student, in which the various stages of development can be easily observed and specimens may be obtained in abundance for at least eight months in the year.

The Echinoidea are represented by 29 species, a few being confined to Port Jackson, five may be said to be fairly common, and the rest are more or less rare. For our knowledge of the Echini we are indebted to the late Rev. J. E. Tenison-Woods and Dr. E. P. Ramsay. The Holothurioidea have only been partially worked, and it is probable that there are many more species than the 16 herein mentioned.

The Marine Worms have been partly dealt with by Dr. Haswell, but there remains a vast amount of work still to be done in this somewhat neglected class. I have to thank him for much valuable information relating to the fauna of Port Jackson generally, and the worms in particular, also for his having kindly revised the MS. and at the same time added many species to the list.

The Crustacea have also been worked out by Dr. Haswell in a catalogue published by the Trustees of the Australian Museum; since this was issued there has been a considerable number of additions made chiefly through the collections of the "Challenger" and of the "Alert," together with some few added by myself. The lower orders of the class have been dealt with by the authors of the various Challenger Reports and the total number of species now recorded is 367. To Dr. Haswell, indebtedness is due for information respecting the Pycnogonida or sea-spiders, four out of the six species mentioned having been described by him in the Linnean Proceedings; and I desire to thank Mr. A. S. Olliff and Mr. F. E. Skuse for the marine insects mentioned.

The Mollusca appear to have had more attention paid to them than any of the other invertebrates. It would have been almost impossible for me to have done justice to this section, had I not had the assistance of Mr. John Brazier of the Australian Museum, who has afforded very great help in the way of books and papers, as well as in allowing me to use his notes relating to synonyms, habitats, &c., in addition to which my thanks are due to him for his kindness in undertaking the revision of the list of shells, and for information regarding many other branches of marine zoology.

The Molluscoidea are fairly represented, but there still remains much to be done in this group. The Polyzoa have to a great extent been worked out by Mr. A. W. Waters, chiefly from material collected by Mr. Brazier.

The Tunicata are not well represented considering the number of forms to be seen on our rocky shores. The species enumerated are taken chiefly from the list contained in the "Voyage of the Challenger," by Prof. Herdman, who has in hand a large collection

from Port Jackson, the detailed description of which will, when published, no doubt add largely to the number of species.

The freshwater fauna is not very well represented, the Rhizopoda, Infusoria, and Rotifera are only in part worked out, and there are very many more species with which I am acquainted but have not had time to investigate sufficiently to include them in this list. Beyond a few exhibits recorded in the Proceedings of the Royal and Linnean Societies of New South Wales, there has been little or nothing done in regard to the above mentioned classes, and most of those recorded have been worked out by myself for this paper. The Planarians, Oligochaeta, and other classes of worms are practically untouched, and would well repay investigation. The Entomostraca have been dealt with by the Rev. R. L. King, but since his papers were published little has been done. Mr. G. S. Brady has described some from the Tweed River district in the Proceedings of the Zoological Society, and Prof. Sars of Christiana has also described some from New South Wales and Queensland, the species having been raised in an aquarium from dried mud sent from Australia to Prof. Sars in Norway by one of his correspondents. The Mollusca are not very numerous, no doubt there are many more species to be found near Sydney, and I must again thank Mr. Brazier for his kindness in supplying me with books, notes, and many of the habitats herein recorded.

In conclusion, I desire to say that it has been my best endeavour to render this list as complete as possible, and if any grave mistakes have been made in assigning species to wrong genera or families, I venture to hope that specialists will overlook such, since it is no easy task to make a compilation from so many different authors.

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Arch. f. Natur., Archiv fur Naturgeschichte, Berlin.

Arch. Zool. Exp., Archives de Zoologie Experimentale et Generale, Paris, 1871-1889.

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Cat. Hydroida, Catalogue of the Australian Hydroid Zoophytes, W. M. Bale, 1884.

Cat. Medusæ, Catalogue of the Medusæ of the Australian Seas, Part i. Scyphomedusæ, Part ii. Hydromedusæ, Dr. R. v. Lendenfeld, 1887.

Cat. Echini, Catalogue of the Echinodermata in the Australian Museum Part i. Echini, by E. P. Ramsay, 1885.

Cat. Sponges, Catalogue of Sponges in the Australian Museum, Dr. R. v. Lendenfeld, 1888.

Conch. Cab., Conchylien Cabinet, Martini and Chemnitz.

Conch. Icon., Conchologia Iconica, L. A. Reeve, London, 20 Vols. 1843-78.

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Sponges—Calcarea, by N. Polejaeff, Vol. VIII.
" Keratosa, by N. Polejaeff, Vol. XI.
" Monaxonida, by S. O. Ridley and A. Dendy, Vol. XX.
" Hexactinellida by F. E. Schulze, Vol. XXI.
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Hydroida—Plumularidae, by G. J. Allman, Vol. VII.
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Pennatulidae by A. Kolliker, Vol. I.
Alcyonaria by Percival Wright and Th. Studer, Vol. XXXI.
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„ Gephyrea by E. Selenka, Vol. XIII.
„ Myzostomida by L. von Graff, Vol. X. and Vol. XX.
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Part I. Marine Invertebrates.

Sub-Kingdom PROTOZOA.

Class RHIZOPODA.

Order I. FORAMINIFERA.

Family NUBECULARINÆ.

Sub-Family Miliolininæ.

1 Biloculina comata, Brady; Challenger Report, Foraminifera, Vol. ix., p. 144, pl. iii., f. 9, *a-b*. 410 Faths. Station, 164 A. Off Port Jackson.
2 B. depressa, (d'Orb.); C.R., p. 145, pl. ii., f. 12; 15-17, pl. iii., f. 1, 2. Off P.J.
3 B. ringens, (Lam.); C.R., p. 142, pl. ii., f. 7, 8. Off P.J.
4 Spiroloculina limbata, (d'Orb.); C.R., p. 150, pl. ix., f. 15-17. Off P.J.
5 S. tenuis, (Czizek); C.R., p. 152, pl. x., f. 7-11. Off P.J.
6 S. impressa, Tarquem; C.R., p. 151, pl. x., f. 3, 4. Watson's Bay, (W.)
7 S. grata, Tarquem; C.R., p. 155, pl. x., f. 16, 17, 22, 23. Watson's Bay.
8 Miolina semilulum, Linné; C.R., p. 157, pl. v., f. 6, *a. b. c.* Off P.J.
9 M. oblongum, Montagu; C.R., p. 160, pl. v., f. 4, *a. b.* Watson's Bay, (W.), off P.J.
10 M. tricarinata, d'Orb.; C.R., p. 165, pl. iii., f. 17, *a.b.* Watson's Bay, (W.), off P.J.
11 M. circularis, Bornemann; C.R., p. 169, pl. iv., f. 3, *a. b. c.*; pl. v., f. 13, 14? Watson's Bay, (W.)
12 M. agglutinans, d'Orb.; C.R., p. 180, pl. viii., f. 6, 7. Off P.J.
13 M. crassatina, Brady; C.R., p. 180, pl. viii., f. 5, *a. b.* Watson's Bay, (W.)

Sub-Family Hauerininæ.

14 Ophthalmidium inconstans, Brady; C.R., p. 189, pl. xii., f. 5, 7, 8. Off P.J.

Sub-Family Peneroplidinæ.

15 Peneroplis pertusus, Forskal; C.R., p. 204, pl. xiii., figs. 12 – 25. Very common, Watson's Bay, (W.)

Family ASTRORHIZIDÆ.

Sub-Family Pilulininæ.

16 Technitella legumen, Norman; C.R., p. 246, pl. xxv., f. 8-12. Off P.J.

Sub-Family Rhabdammininæ.

17 Hyperammina elongata, Brady ; C.R., p. 257, pl. xxiii., f. 4, 7-10. Off P.J.
18 H. ramosa, Brady, C.R., p. 261, pl. 23, f. 15-19. Off P.J.
19 Rhabdammina abyssorum, Sars ; C.R., p. 266, pl. xxi., f. 1-13. Off P.J.
20 Haliphysema ramulosum, Bowerbank ; C.R., p. 283, pl. xxvii. A. f. 6. This species is abundant on shells and stones in many parts of Port Jackson, at low water mark. Middle Harbour, Farm Cove, Watson's Bay, (W.)

Family LITUOLIDÆ.

Sub-Family Lituolinæ.

21 Reophax difflugiformis, Brady ; p. 289, pl. xxx., f. 1-5. Off P.J.
22 R. scorpiurus, Montfort ;? C.R., p. 291, pl. xxx., f. 12-17. Watson's Bay, (W.)
23 R. pilulifa, Brady ; C.R., p. 292, pl. xxx., f. 18-20. Off P.J.
24 R. nodulosa, Brady ; C.R., p. 294, pl. xxxi., f. 1-9. Watson's Bay, (W.)
25 Haplophragmium calcareum, Brady; C.R., p. 302, pl. xxxiii., f. 5-12. Off P.J.
26 H. globigeriniforme, Parker & Jones; C.R., p. 313, pl. xxxv., f. 10, 11. Off P.J.

Sub-Family Trochammininæ.

27 Ammodiscus gordialis, Jones & Parker ; C.R., p. 333, pl. xxxviii., f. 7-9.
28 Trochammina proteus, Karrer ; C.R., p. 341, pl. xl., f. 1-3. Off P.J.
29 Webbinia clavata, Jones & Parker ; C.R., p. 349, pl. xli., f. 12-16. Off P.J.

Family TEXTULARIDÆ.

Sub-Family Textularidæ.

30 Textularia agglutinans, d'Orb. ; C.R., p. 363, pl. xliii, f. 1-3. Watson's Bay, (W.), off P.J.
31 T. leucolenta, Brady; C.R., p. 364, pl. lxiii., f. 5-8. Off P.J.
32 Gaudryina pupoides, d'Orb. ; C.R., p. 378, pl. xlvi., f. 1-4. Watson's Bay (W), off P.J.
33 Valvulina fusca, Will. ; C.R., p. 392, pl. xlix., f. 13, 14. Off P.J.

Sub-Family Bulimininæ.

34 Bulimina elegantissima, d'Orb. ; C.R., p. 402, pl. l., f. 20-22. Watson's Bay (W) off P.J.

35 B. BUCHIANA, d'Orb.; C.R., p. 407, pl. li., f. 18, 19. Off P.J.
36 B. WILLIAMSONIANA, Brady ; C.R., p. 408, pl. li., f. 16-17. Watson's Bay (W), off P.J.
37 B. CONTRARIA, Reuss; C.R., p. 409, pl. liv., f. 18, *a.b.c.* Off P.J.
38 B. ACULEATA, d'Orb. ; C.R., p. 406, pl. li., f. 7-9. Watson's Bay (W.), off P.J.
39 B. PUPOIDES, d'Orb. ; C.R., p. 400, pl. l., f. 15, *a. b.* Off P.J.
40 B. PYRULA, d'Orb.; C.R., p. 399, pl. l., f. 7-10. Off P.J.
41 B. SUBTERES, Brady ; C.R., p. 403, pl. l., f. 17, 18.
42 BOLIVINA ROBUSTA, Brady ; C.R., p. 421, pl. liii., f. 7-9. Watson's Bay (W), off P.J.
43 B. BEYRICHI, Reuss ; C.R., p. 422, pl. liii., f. 1. Watson's Bay (W.), off P.J.

Sub-Family CASSIDULININÆ.

44 CASSIDULINA CRASSA, d'Orb. ; C.R., p. 429, pl. liv., f. 4, 5. Off P.J.
45 C. LAEVIGATA, d'Orb.; C.R., p. 428, pl. liv., f. 1-3. Off P.J.
46 C. SUBGLOBOSA, Brady ; C.R., p. 430, pl. liv., f. 17, *a.b.c.* Off P.J.
47 C. BRADYI, Norman , C.R., p. 431, pl. liv., f. 6-10. Off P.J.
48 EHREMBERGINA SERRATA, Reuss ; C.R., p. 434, pl. lv., f. 2-7. Watson's Bay (W.), off P.J.

Family CHILOSTOMELLIDÆ.

49 CHILOSTOMELLA OVOIDA, Reuss ; C.R., p. 436, pl. lv., f. 12-23. Watson's Bay (W.), off P.J.

Family LAGENIDÆ.

Sub-Family LAGENINÆ.

50 LAGENA ACUTA, Reuss ; C.R., p. 474, pl. lxix., f. 6, *a.b.c.* Watson's Bay (W.), off P.J.
51 L. GLOBOSA, Montagu ; C.R., p. 452, pl. lvi., f. 1, 2, 3. Watson's Bay (W.), off P.J.
52 L. LAEVIS, Montagu ; C.R., p. 455, pl. lvi., f. 7-14, 30. Watson's Bay (W.), off P.J.
53 L. ELONGATA, Ehrenberg ; C.R., p. 457, pl. lvi., f. 29. Watson's Bay (W.), off P.J.
54 L. GRACILLIMA, Seguenza ; C.R., p. 456, pl. lvi., f. 19-28. Watson's Bay (W.), off P.J.
55 L. STRIATA, d'Orb. ; C.R., p. 460, pl. lvii., f. 22, 24, 28, 29. Watson's Bay (W), off P.J.
56 L. LINEATA, Williamson; C.R., p. 461, pl. lvii., f. 13. Watson's Bay (W.).
57 L. SULCATA, Walker & Jacob ; C.R., p. 462, pl. lvii., f. 23, 26, 33, 34. Watson's Bay (W.), off P.J.

58 L. ACUTICOSTA, Reuss; C.R., p. 464, pl. lvii., f. 33-32; pl. lviii. f. 20 ? 21. Watson's Bay (W.)
59 L. SEMISTRIATA, Williamson; C.R., p. 465, pl. lvii., f. 14, 16, 17. Watson's Bay (W.), off P.J.
60 L. CRENATA, Parker & Jones; C.R., p. 467, pl. lvii., f. 15, 21. Watson's Bay (W.), off P.J.
61 L. SPIRALIS, Brady; C.R., p. 468, pl. cxvi., f. 9. Watson's Bay (W.).
62 L. STRIATOPUNCTATA, Parker & Jones, C.R., p. 469, pl. lviii., f. 37-40. Watson's Bay (W.), off P.J.
63 L. FEILDENIANA, Brady; C.R., p. 469, pl. lviii., f. 38, 39. Off P.J.
64 L. SQUAMOSA, Montagu; C.R., p. 471, pl. lviii., f. 28-31. Watson's Bay (W.).
65 L. HEXAGONA, Williamson; C.R., p. 472, pl. lviii., f. 32-33. Watson's Bay (W.), off P.J.
66 L. MARGINATA, Walker & Boys; C.R., p. 476, pl. lix., f. 21-23. Watson's Bay (W.), off P.J.
67 L. LAGENOIDES, Williamson; C.R., p. 479, pl. lx., f. 6, 7, 9, 12-14. Watson's Bay (W.), off P.J.
68 L. QUADRICOSTULATA, Reuss; C.R., p. 386, pl. lix., f. 15. Watson's Bay (W.), off P.J.
69 L. ORBIGNYANA, Seguenza; C.R., p. 484, pl. lix., f. 1, 18, 24-26. Watson's Bay (W.), off P.J.
70 L. PLUMIGERA, Brady; C.R., p. 465, pl. lviii., f. 25, 27. Watson's Bay (W.).
71 L. APICULATA, Reuss; C.R., p 453, pl. lvi., f. 4, 15-18. Watson's Bay (W.).

Sub-Family NODOSARINÆ.

72 NODOSARIA LAEVIGATA, d'Orb.; C.R., p. 493, pl. lxi. f. 21, 22. Off P.J.
73 N. SOLUTA, Reuss; C.R., p. 503, pl. lxii., f. 13-16. Watson's Bay (W.), off P.J.
74 N. COMMUNIS, d'Orb.; C.R., p. 504, pl. lxii., f. 19-22. Watson's Bay (W.), off P.J.
75 N. HISPIDA, d'Orb.; C.R., p. 507, pl. lxiii., f. 12-16. Watson's Bay (W.), off P.J.
76 N. OBLIQUA, Linne; C.R., p. 513, pl. lxiv., f. 20-22. Watson's Bay (W), off P.J.
77 N. SCALARIS, Batsch; C.R., p. 510, pl. lxiii., f. 21-31; pl, lxiv., f. 16-19. Watson's Bay (W.), off P.J.
78 RHABDOGONIUM TRICARINATUM, d'Orb.; C.R., p. 525, pl. lxvii., f. 1-3. Watson's Bay (W.), off P.J.
79 VAGINULINA SPINIGERA, Brady; C.R., p. 531, pl. lxvii., f. 13-14. Off P.J.

80 CRYSTELLARIA CONVERGENS, Bornemann; C.R., p. 546, pl. lxix., f. 6, 7. Off P.J.
81 C. GIBBA, d'Orb., C.R., p. 546, pl. lxix., f. 8, 9. Off P.J.
82 C. ORBICULARIS, d'Orb., C.R., p. 549, pl. lxix., f. 17. Off P.J.
83 C. ROTULATA, Lamarck ; C.R., p. 547, pl. lxix., f. 13, *a.b.* Watson's Bay (W.), off P.J.
84 C. VARIABILIS, Reuss ; C.R., p. 541, pl. lxviii., f. 11-16. Watson's Bay (W.), off P.J.
85 C. ITALICA, Defrance, C.R., p. 544, pl. lxviii., f. 17, 18, 20-23. Watson's Bay (W.), off P.J.

Sub-Family POLYMORPHININÆ.

86 POLYMORPHINA ELEGANTISSIMA, Parker & Jones, C.R., p. 566, pl. lxxii, f. 12-15. Watson's Bay (W.), P.J.
87 P. SEGUENZANA, Brady ; C.R., p. 567, pl. lxxii., f. 16, 17. Watson's Bay (W.), P.J.
88 P. OBLONGA, d'Orb. ; C.R., p. 569, pl. lxxiii., f. 2-4. Watson's Bay (W.), off P.J.
89 P. REGINA, Brady ; C.R., p. 571, pl. lxxiii., f. 11-13. Common, Watson's Bay (W.), P.J.
90 UVIGERINA ASPERULA, Czjzek ; C.R., p. 578, pl. lxxv., f. 6-8. ; var. *ampullacea*, p. 579, pl. lxxv., f. 10-11. Watson's Bay (W), off P.J.
91 U. PYGMAEA, d'Orb. ; C.R., p. 575, pl. lxxiv., f. 11-12. Watson's Bay (W.), off P.J.
92 SAGRINA COLLUMELLARIS, Brady ; C.R., p. 581, pl. lxxv., f. 15-17. Watson's Bay (W.), off P.J.

Family GLOBIGERINIDÆ.

93 GLOBIGERINA BULLOIDES, d'Orb. ; C.R., p. 593, pls. lxxvii., lxxix., f. 3-7. Watson's Bay (W.), off P.J.
94 G. INFLATA, d'Orb. ; C.R., p. 601, pl. lxxix., f. 8-10. Watson's Bay (W.), off P.J.
95 G. RUBRA, d'Orb. ; C.R., p. 602, pl. lxxix., f. 11-16. Watson's Bay (W.), off P.J.
96 G. CONGLOBATA, Brady ; C.R., p. 603, pl. lxxx., f. 1-5 ; pl. lxxxii., f. 5. Watson's Bay (W.), off P.J.
97 G. HELICINA, d'Orb. ; C.R., p. 605, pl. lxxxi., f. 4-5. Watson's Bay (W.), off P.J.
98 G. SACCULIFERA, Brady ; C.R., 604, pl. lxxx., f. 11-17 ; pl. lxxxii., f. 4. Watson's Bay (W.), off P.J.
99 ORBULINA UNIVERSA, d'Orb. ; C.R., p. 608, pl. lxxvii. ; pl. lxxxi., f. 8-26 ; pl. lxxxii., f. 1-3. Watson's Bay (W.), off P.J.
100 PULLENIA SPHAEROIDES, d'Orb. ; C.R., p. 615, pl. lxxxiv., f. 12, 13. Watson's Bay (W.), off P.J.

101 P. QUINQUELOBA, Reuss; C.R., p. 617, pl. lxxxiv., f. 14, 15. Watson's Bay (W.), off P.J.
102 P. OBLIQUILOCULATA, Parker & Jones; C.R., p. 618, pl. lxxxiv., f. 16-20. Off P.J.
103 SPHAEROIDINA BULLOIDES, d'Orb.; C.R., p. 620, pl. lxxxiv., f. 1-7. Watson's Bay (W.), off P.J.
104 S. DEHISCENS, Parker & Jones, C.R., p. 621, pl. lxxxiv., f. 8-11. Off P.J.

Family ROTALIDÆ.

Sub-Family ROTALINÆ.

105 DISCORBINA TURBO, d'Orb.; C.R., p. 642, pl. lxxxvii., f. 8, *a. b. c.* Watson's Bay (W.), P.J.
106 D. VALVULATA, d'Orb.; p. 644, pl. lxxxvii., f. 5-7. Watson's Bay (W.), P.J.
107 D. PILEOLUS, d'Orb., p. 649, pl. lxxxix., f. 2-4. Watson's Bay (W.), P.J.
108 D. OPERCULARIS, d'Orb.; C.R., p. 650, pl. lxxxix., f. 8, 9. P.J.
109 D. VESICULARIS, Lamarck; C.R., p. 651, pl. lxxxvii., f. 2, *a. b. c.* Watson's Bay (W.), P.J.
110 D. BICONCAVA, Parker & Jones; C.R., p. 653, pl. xci., f. 2, 3. Watson's Bay (W.), P.J.
111 D. ALLOMORPHINOIDES, Reuss; C.R., p. 654, pl. xci., f. 5, 8. Watson's Bay (W.), P.J.
112 TRUNCATULINA LOBULATA, Walker & Jacob; C.R., p. 660, pl. xcii., f. 10; pl. xciii., f. 1, 4, 5; pl. xcv., f. 4, 5. Off P.J.
113 T. HAIDINGERII, d'Orb.; C.R., p. 663, pl. xcv., f. 7, *a.-c.* Watson's Bay (W.), off P.J.
114 T. TENUIMARGO, Brady; C.R., p. 662, pl. xciii., f. 2-3. Watson's Bay (W.), off P.J.
115 T. RETICULATA, Czjzek; C.R., p. 668, pl. xcvi., f. 5-8. Watson's Bay (W.), off P.J.
116 T. WUELLERSTORFI, Schwager, C.R., p. 662, pl. xciii., f. 8, 9. Watson's Bay (W.), off P.J.
117 ANOMALINA GROSSERUGOSA, Gumbel; C.R., p. 673, pl. xciv., f. 4-5. Watson's Bay (W.), off P.J.
118 PULVINULINA CANARIENSIS, d'Orb.; C.R., p. 692, pl. ciii., f. 8-10. Watson's Bay (W.), off P.J.
119 P. CRASSA, d'Orb.; C.R., p. 694, pl. ciii., f. 11-12. Off P.J.
120 P. MICHELIANA, d'Orb.; C.R., p. 694, pl. civ. f. 1, 2. Off P.J.
121 P. MENARDI, d'Orb.; C.R., p. 690, pl. ciii., f. 1-2. Watson's Bay (W.), off P.J.
122 P. PARTSCHIANA, d'Orb.; C.R., p. 669, pl. cv., f. 3, *a. b. c.* Woodcut, f. 21. Watson's Bay (W.), off P.J.
123 ROTALIA ORBICULARIS, d'Orb.; C.R., p. 706, pl. cvii., f. 5; pl. cxv., f. 6. Off P.J.

124 R. PAPILLOSA, Brady ; C.R., p. 708, pl. cvi., f. 9, *a.b.c.* ; var. *compressiuscula*, pl. cvii., f. 1, *a.b c.* Off P.J.

Sub-Family TINOPORINÆ.

125 POLYTREMA MINIACEUM, Linne ; C.R., p. 721, pl. c., f. 5-9 ; pl. ci., f. 1. Common in Port Jackson on shells &c. (W.)

Family NUMMULINIDÆ.

Sub-Family POLYSTOMELLINÆ.

126 NONIONINA UMBILICATULA, Montagu ; C.R., p. 726, pl. cix., f. 8-9. Off P.J.

127 POLYSTOMELLA IMPERATRIX, Brady ; p. 638, pl. cx., f. 13-15. Watson's Bay, (W.)

Order II. RADIOLARIA.

128 THALLASICOLLA AUSTRALIS, Haeckel ; Chall. Report, Vol. XVIII., pt. i., p. 20. Station 163.

129 SPHAEROZOUM OCTOCERUS, Haeck.; C.R., pt. i., p. 44. Station 163.

130 SIPHONOSPHAERIA FRAGILIS, Haeck.; C.R., pt. i., p. 106. Sydney.

131 DICTYOCEPHALUS AUSTRALIS, Haeck ; C.R., pt. ii., p. 1306, pl. lxii., f. 1. Station 164, surface.

132 CASTANARIUM HUXLEYI, Haeck. ; C.R., pt. ii., p. 1682. Station 165, surface.

133 CŒLOTHOLUS CRUCIATUS, Haeck. ; C.R., pt. ii., p. 1749. Station 164 A., 1200 faths.

INFUSORIA.

Class FLAGELLATA.

Order CILIO-FAGELLATA.

Family PERIDINIIDÆ.

134 CERATIUM TRIPOS? Mull. ; Saville Kent, Manual of the Infusoria, Vol. I., p. 454, pl. xxv., f. 24. Obtained in tow-net Watson's Bay (W).

135 C. FURCA,? Ehrenberg ; Saville Kent, l.c. Vol. I., p. 445, pl. XXV., f. 31. Obtained in tow-net Watson's Bay (W.)

Class CILIATA.

Order HETEROTRICHA.

Family TINTINNODÆ.

136 TINTINNUS sp. Representatives of this and allied genera appear to be fairly common on Algæ, Hydroids and Polyzoa in P.J. (W.)

Family STENTORIDÆ.

137 Folliculina hirundo, ? Saville Kent, l.c. Vol. II., p. 600, pl. xxix., f. 39. On *Bugula neritina*, Ball Head Bay. (W.)
138 F. sp. On seaweed, Botany. (W.)

Order PERITRICHA.

Family VORTICELLIDÆ.

This family is well represented in Port Jackson, I have seen examples of the following Genera :—Rhabdostyla, Vorticella, Carchesium, Zoothamnium, Cothurnia and Pyxicola. They are usually found attached to seaweeds, Hydroids, Polyzoa, and various free swimming crustacea.

Class TENTCULIFERA.

Order SUCTORIA.

Family ACINETIDÆ.

139 Podocyathus sp. On the stems of *Tubularia gracilis*, from Piles, Circular Quay, P.J. (W.)
140 Ophryodendron sp. On Sertularia off Balls Head. (W.)

Sub-Kingdom CŒLENTERATA.

Class PORIFERA.

Calcispongia.

Order HOMOCŒLA.

Family ASCONIDÆ.

1 Ascetta procumbens, R.v.L. ; P.L.S., N.S.W., Vol. IX., p. 1086, pl. lxi., figs. 1a, 1b, 1c, 1d ; pl. lxiii., fig. 2, 3, 4, 5, 6. Common on shells, stones, &c., also on a crab, *Cryptodromia lateralis*, Stimpson, Mossman's Bay; Neutral Bay and many other places. (W.)
2 A. Macleayi, R.v.L. ; P.L.S., N.S.W , Vol. IX., p. 1086, pl. lix., f. 7 ; pl. lii., f. 8-13. Under stones, Farm Cove, P.J. (W.)
3 Ascaltis Lamarckii, Haeckel ; Die Kalkschwamme, Band II., Seite 60, pl. ix., f. 5 ; pl. x., f. 4, a-d. P.J.
4 Homoderma sycandra, R.v.L. ; P.L.S., N.S.W., Vol. IX., p. 1088, pl. lx., f. 14 ; pl. lxiv., f. 15 ; pl. lxiii., fis. 16-21 ; pl. lxv., figs. 22-33. P.J.
5 Leucopsis pedunculata, R.v.L. ; l.c., p. 1089. P.J.

Sub-Order Heterocœla.

Family SYCONIDÆ.

6 SYCANDRA ARBOREA, Haeckel; l.c., Seite 331, pl. liii., figs. 1a, 1t; pl. lviii., f. 7. Very common under stones at low water mark, Watson's Bay; Middle Harbour. (W.)

7 S. RAMSAYI, R.v.L.; l.c., p. 1097, pl. v., figs. 35-36; pl. lxvi., f. 37; pl. lxii., figs. 38-40. In six fathoms off Shark Island. (Dr. Ramsay.)

Sub-Family UTEINÆ.

8 GRANTESSA SACCA, R.v.L.; l.c., 1088, pl. lx., f. 41. Off Shark Island, and off Ball's Head, P.J. (Dr. Ramsay.)

9 AMPHORISCUS CYLINDRUS, Haeckel; l.c., Seite 254, pl. xliii., f. 5-7, Band III. P.J.

10 A. POCULUM, Polejaeff; Challenger Report, Vol. VII., p. 46, pl. iv., f. 4; pl. v., f. 2a, 2f. Station 163 A. off P.J.

11 GRANTIA LOBATA, R.v.L.; l.c., p. 1106. P.J.

Family SYLLEIBIDÆ.

12 VOSMAERIA GRACILIS, R.v.L.; l.c., p. 1111. P.J.

13 V. IMPERFECTA, Polejaeff; C.R., Vol. VIII., p. 67, pl. vii., f. 9a, 9c. Off P.J.

14 V. HAECKELIANA, Polejaeff; C.R., p. 69, pl. ii., f. 6; pl. viii., f. 1-0. Off P.J.

Family LEUCONIDÆ.

15 LEUCETTA MICRORHAPHIS, R.v.L.; l.c., p. 1117. Off Shark Island, P.J.

16 LEUCALTIS HELENA, R.v.L.; l.c., p. 1119. P.J.

17 L. BATHYBIA, Haeckel; l.c., Seite 156, pl. xxviii., f. 2a, 2c., var. *Australiensis*, Ridley; Zool. of "Alert," p. 482, pl. xliii., f. m. P.J.

18 LEUCORTIS LORICATA, Polejaeff; C.R., Vol. VIII., p. 63, pl. ii., f. 2; pl. vii., f. 6a, 6b. Off P.J.

19 LEUCANDRA CONICA, R.v.L.; l.c., p. 1126. Watson's Bay, under stones, P.J.

20 L. MEANDRINA, R.v.L.; l.c., p. 1128, pl. lxvii., f. 43, 44. Off Ball's Head, 18 faths. P.J.

21 L. CATAPHRACTA, Haeckel, l.c., Band II., p. 203; Band III., pl. xxxii., f. 9a, 6f; pl. xxxvii., f. 2. Cabbage-tree Bay (W.), P.J.

22 L. TYPICA, var. *tuba*, Polejaeff; C.R., Vol. VIII., p. 56, pl. vii., f. 2a, 2c. Between Clark and Shark Islands, P.J.

23 L. VILLOSA, R.v.L.; l.c., p. 1131. P.J.

24 L. VAGINATA, R.v.L.; l.c., p. 1133. Off Shark Island, P.J. (Dr. Ramsay.)

25 L. SACCHARATA, Haeckel ; l.c., Band II., p. 228 ; Band III., pl. xxxiii., f. 3a, 3e ; pl. 38, f. 7, 74. Off Ball's Head, and off Shark Island. (Dr. Ramsay.)

Family TEICHONIDÆ.

26 EILHARDIA SCHULZEI, Polejaeff ; C.R., p. 70, pl. ii., f. 7 ; pl. ix., 1-70. Off P.J.

Class SILICEA.

Order HEXACERATINA.

Family APLYSILLIDÆ.

27 IANTHELLA FLABELLIFORMIS, Gray; P.Z.S., 1869, p. 50; R.v.L., Cat. Sponges, p. 23. Off Green Point. (Dr. Ramsay.)
28 APLYSILLA ROSEA, F. E. Schulze ; R.v.L., Cat. Sponges, p. 26. Off Ball's Head, 18 fms., P.J.
29 A. VIOLACEA, R.v.L. ; Cat. Sponges, p. 26. P.J.
30 DENDRILLA ELEGANS, R.v.L. ; l.c., p. 27. Off Cockatoo Island, P.J.
31 D. TENELLA, R.v.L. ; l.c., p. 27. Off Green Point, P.J.
32 D. CAESPITOSA, Carter ; Ann. & Mag., (5 Ser. 1886) Vol. xviii., p. 282, P.J.
33 D. ROSEA, R.v.L. ; var. *typica*, Cat. Sponges, p. 28. Off Green Point, P.J. (Dr. Ramsay.)
34 D. DIGITATA, R.v.L. ; l.c., p. 29. P.J.
35 D. JANTHELLIFORMIS, R.v.L. ; l.c., p. 29. P.J.
36 D. CAVERNOSA, R.v.L. ; l.c., p. 29. Off Green Point, P.J. (Dr. Ramsay.)

Family HALISARCIDÆ.

37 BAJALUS LAXUS, R.v.L.; Cat. Sponges, p. 30. On seaweed off Ball's Head, P.J.

Order CHONDROSSPONGLÆ.

Family GEODIDÆ.

38 ISOPS SOLLASI, R.v.L. ; l.c., p. 34. Shark Reef, P.J.

Family STELLETTIDÆ.

39 PSAMMASTRA GIGAS, R.v.L. ; l.c., p. 39. Off Green Point, P.J.

Family ANCHORINIDÆ.

40 ANCORINA AUSTRALIS, R.v.L. ; l.c., p. 41. On the roots of Laminarians, Neutral Bay. (Dr. Ramsay.)

Family TETILLIDÆ.

41 SPIRETTA RAPHIDIOPHORA, R.v.L. ; l.c., p. 43. P.J.

Family TETHYOPSILLIDÆ.

42 TETHYOPSILLA STEWARTII, R.v.L. ; l.c., p. 45. P.J. (Dr. Ramsay.)

Order MONAXONIA.

Family TETHYDÆ.

43 TETHYA MULTISTELLA, R.v.L. ; l.c., p. 47. Watson's Bay, P.J. (Dr. Ramsay.)
44 T. CORTICATA, R.v.L. ; l.c., p. 48. Neutral Bay, P.J. (Dr. Ramsay.)
45 T. FISSURATA, R.v.L.; l.c., p. 49. Under stones Neutral Bay, P.J.
46 T. INFLATA, R.v.L. ; l.c., p. 49. P.J. (Dr. Ramsay.)
47 T. LAEVIS, R.v.L. ; l.c., p. 50. P.J. (Dr. Ramsay.)
48 TETHYORRHAPHIS LAEVIS, R.v.L.; l.c., p. 52. P.J. (Dr. Ramsay.)
49 T. TUBERCULATA, R.v.L. ; l.c., p. 53. P.J. (Dr. Ramsay.)
50 T. GIGANTEA, R.v.L. ; Cat. Sponges, p. 54. P.J.
51 T. CONULOSA, R.v.L. ; l.c., p. 55. P.J. (Dr. Ramsay.)

Family SPIRASTRELLIDÆ.

52 SPIRASTRELLA AUSTRALIS, R.v.L. ; l.c., p. 57. Off Green Point, P.J.
53 S. PAPILLOSA, Ridley & Dendy ; Chall. Report, Vol. xx., p. 232, pl. xli., f. 5 ; pl. xlv., f. 11, 11g. P.J.
54 PAPILLINA PANIS, R.v.L. ; l.c., p. 58. Off Green Point, P.J. (Dr. Ramsay.)
55 P. RAMULOSA, R.v.L., l.c., p. 59. P.J.
56 RAPHYRUS HIXONII, R.v.L. ; l.c., p. 61. Off Green Point, P.J. (Dr. Ramsay.)
57 PAPILLISSA LUTEA, R.v.L. ; l.c., p. 64. Common under stones at low tide, Watson's Bay ; Neutral Bay (W.)

Family SUBERITIDÆ.

58 SUBERITES DOMUNCULA, Nardo ; R.v.L., l.c., p. 65. Watson's Bay, P.J.
59 S. CARNOSA, Johnstone, Brit. Sponges, p. 146, pl. xiii., f. 7-8 ; Zool. of "Alert," p. 165. P.J.
60 S. PERFECTUS, Ridley & Dendy ; C.R., Vol. xx., p. 200, pl. xli., f. 9 ; pl. xlv., f. 3a-b. P.J.
61 PLECTODENDRON ELEGANS, R.v.L. ; R.v.L., l.c., p. 66. P.J.
62 CLIONA sp., R.v.L.; l.c., p. 67. Common off Green Point. The colour when living is dark yellow.

Sub-Order Oligosilicina.

Family CHONDRILLIDÆ.

63 CHONDRILLA CORTICATA, R.v.L. ; l.c., p. 70. P.J.
64 C. AUSTRALIENSIS, Carter ; Ann. & Mag., N.H 4 ser., Vol. XII., p. 23, (1873). P.J.
65 C. PAPILLATA, R.v.L. ; l.c., p. 71. P.J.

Family CHONDROSIDÆ.

66 CHONDROSIA RAMSAYI, R.v.L. ; l.c., p. 72. P.J.
67 C. COLLECTRIX, R.v.L. ; l.c., p. 74. P.J.

Family HOMORRHAPHIDÆ.

68 RENIERA COLLECTRIX, R.v.L., l.c., p. 78. P.J.
69 R. AUSTRALIS, R.v.L. ; l.c., p. 79. Off Ball's Head ; Shark Reef, P.J.
70 R. MEGARRHAPHEA, R.v.L. ; p. 79. P.J.
71 R. PANDÆA, R.v.L. ; l.c., p. 79. Off Shark Island, P.J.
72 R. LOBOSA, R.v.L. ; l.c., p. 79. P.J.
73 PETROSIA HEBES, R.v.L.; l.c., p. 80. P.J.
74 HALICHONDRIA RUBRA, R.v.L. ; l.c., p. 80. Off Green Point ; Shark Reef, P.J.
75 H. RUBRA var. DIGITATA, R.v.L. ; l.c., p. 81, pl. ii., f. 1. P.J.
76 H. MAMMILLATA, R.v.L. ; l.c., p. 81. P.J.
77 H. CLATHRIFORMIS, R.v.L.; l.c., p. 82. Maroubra Bay (W.), P.J.

Sub-Family CHALININÆ.

78 CHALINOPORA SUBARMIGERA, Ridley, Zool. of " Alert" p. 397, P.J.
79 C. LAMELLA, R.v.L. ; l.c., p. 85. P.J.
80 C. SIPHONOPSIS, R.v.L. ; l.c., p. 85. P.J.
81 CLADOCHALINA EUPLAX, R.v.L.; l.c., p. 85. P.J.
82 C. MOLLIS, R.v.L. ; l.c., p. 86. Maroubra Bay.
83 CHALINISSA COMMUNUS, var. FLABELLUM, R.v.L. ; l.c., p. 88. Off Green Point, P.J.
84 PACHYCHALINA MANUS, R.v.L.; l.c., p. 88. Shark Reef, P.J.; Maroubra Bay.
85 P. LOBATA, Ridley ; Zool. of " Alert," p. 404 ; C.R., Vol. XX., p. 22, pl. v., f. 1, pl. xlvi,. f. 4. P.J.
86 P. MEGALORRHAPHIS, Ridley & Dendy ; C.R., Vol. XX., p. 23, pl. v., f. 6. P.J.
87 P. PUNCTATA, Ridley & Dendy ; C.R., p. 24, pl. 6, f. 2 *a*, *b*, *c*, pl. xlvi., f. 1, 2. Bondi Beach ; P.J.
88 ANTHEROCHALINA DURA, R.v.L. ; l.c., p. 90. P.J.
89 PLACOCHALINA PEDUNCULATA var. DURA, Carter ; R.v.L., l.c., p. 91. Often washed ashore at Coogee ; Bondi, &c.

90 P. ——, var. POCULA, R.v.L. ; l.c., p. 91. P.J.
91 P. ——, var. MOLLIS, R.v.L. ; l.c., p. 91. P.J.
92 PHYLOSIPHONIA SUPERBA, R.v.L. ; l.c., p. 92. P.J.
93 P. INTERMEDIA, Ridley & Dendy ; C.R., p. 30, pl. vii., f. 1 ; pl. xlvi., f. 3. Off Ball's Head; Maroubra Bay.
94 P. SPICULIFERA, R.v.L. ; l.c., p. 92. P.J.
95 P. ANNULATA, Ridley & Dendy ; Ann & Mag. N.H., Ser. 3, Vol. XVIII., p. 331, (1887) R.v.L., l.c., p. 93. P.J.
96 SIPHONOCHALINA AXIALIS, R.v.L. ; l.c., p. 94. Off Green Point, P.J.
97 S. LAXA, R.v.L.; l.c., p. 95. P.J.
98 S. TYPICA, R.v.L. ; l.c., p. 96. Off Green Point, P.J.
99 S. OSCULATA var. MICROPORA, R.v.L. ; l.c., p. 97. Off Shark Reef, P.J.
100 SIPHONELLA TRUNCATA, R.v.L. ; l.c., p. 97. P.J.
101 S. COMMUNIS, R.v.L. ; l.c., p. 98. Off Ball's Head, P.J.
102 HAPLOCHALINA DENDRILLA, R.v.L. ; l.c., p. 98. Off Shark Reef ; Maroubra Bay.
103 DACTYLOCHALINA MONILATA, Ridley : Zool. "Alert," p. 394 ; R.v.L., l.c., p. 100. Off Green Point, P.J.
104 D. RETICULATA, R.v.L. ; l.c., p. 100. Maroubra Bay, (W.)
105 D. CYLINDRICA, R.v.L. ; l.c., p. 101. Maroubra Bay ; P.J.
106 ACERVOCHÀLINA FINITIMA, Schimdt ; Ridley, Zool. "Alert," p. 399. P.J.
107 TUBULODIGITES COMMUNIS, Carter ; Ann. & Mag. N. H., 5 Ser., Vol. IX., p. 367. P.J.
108 TOXOCHALINA ROBUSTA, Ridley ; Zool. "Alert," p. 403, pl. XXXIX., f. g, pl. xli., f. n, n. P.J.
109 EUCHALINA ELIGUA, var. SIMPLEX, R.v.L. ; l.c., p. 102. Washed ashore at Maroubra ; (W.), P.J.
110 CHALINODENDRON RAMOSUM, R.v.L.; l.c., p. 102, pl. iv., f. 2. P.J.
111 C. DENDRILLA, R.v.L. ; l.c., p. 103. P.J.

Family SPONGIDÆ.

112 CHALINOPSILLA DICHOTOMA, R.v.L. ; l.c., p. 107. Washed ashore at Maroubra ; (W.) P.J.
113 C. ARBOREA, var. MACROPORA, Duchassaing & Michelotti ; R.v.L., l.c., p. 110. P.J.
114 PHYLLOSPONGIA FOLIASCENS, Pallas ; R.v.L., l.c. p. 117. Off Shark Island ; Coogee Bay.
115 LEIOSELLA LAEVIS, R.v.L. ; l.c., p. 121. Washed ashore at Moroubra ; P.J
116 L. SILICATA, R.v L. ; l.c., p. 122. P.J.
117 EUSPONGIA OFFICINALIS, var. DURA, Hyatt ; R.v.L., l.c., p. 130. P.J.

118 E. IRREGULARIS, var. SILICATA, R.v.L. ; l.c., p. 134. P.J.
119 HIPPOSPONGIA CANALICULATA, var. DURA, R.v.L. ; l.c., p. 138. Maroubra Bay ; P.J.
120 H. ——, var. MOLLISSIMA, R.v.L., l.c., p. 140. P.J.
121 H. RETICULATA, R.v.L. ; l.c., p. 140. Off Ball's Head, P.J.
122 THORECTA EXEMPLUM, R.v.L. ; l.c., p. 142.
123 var. PRIMA, R.v.L. ; l.c., p. 143. Coogee Bay. P.J.
124 var. SECUNDA, Hyatt ; R.v.L., l.c., p. 144. P.J.
125 var. TERTIA, Hyatt ; R.v.L., l.c., p. 145. P.J.
126 var. MARGINALIS, R.v.L. ; l.c., p. 147. P.J.
127 T. SQUALIDUS, R.v.L. ; l.c., p. 148. P.J.
128 T. RAMSAYI, R.v.L. ; l.c., p. 149. P.J.
129 APLYSINOPSIS ELEGANS, R.v.L. ; l.c., p. 149. P.J.
130 A. DIGITATA, R.v.L. ; l.c., p. 150. Off Green Point, P.J.
131 APLYSINA SPICULIFERA, R.v.L. ; l.c., p. 152. P.J.
132 A. COCOS, R.v.L. ; l.c., p. 153. P.J.
133 DYSIDEOPSIS DIGITATA, R.v.L. ; l.c., p. p. 155. P.J.
134 D. SULPHUREA, R.v.L. ; l.c., p. 156. Off Shark Island, P.J.
135 HALME NIDUS-VESPARUM, R.v.L. ; l.c., p. 157. Maroubra Bay ; P.J.
136 H. VILLOSA, var. AULOPLEGMA, R.v.L. : p. 162. P.J.
137 H. FLABELLUM, R.v.L., l.c., p. 162. P.J.
138 STELOSPONGIA CANALIS, R.v.L. ; l.c., p. 164. P.J.
139 S. AUSTRALIS, R.v.L. ; l.c., p. 166. P.J.
140 var. CONULATA, Hyatt ; R.v.L., l.c., 168. Maroubra; Coogee ; P.J.
141 var. FOVEA, Polejaeff ; R.v.L., l.c., p. 170. Coogee ; Bondi ; P.J.
142 S. INTERTEXTUS, Hyatt, Mem. of Boston Soc., 11, p. 533. P.J.
143 HIRCINIA CAMPANA, R.v.L.; l.c., p. 178. Off Green Point, P.J.
144 H. AUSTRALIS, R.v.L., l.c., p. 180. Off Green Point, P.J.
145 H. CALYCULATA, R.v.L., p. 180. Off Shark Island, P.J.
146 H. ARENOSA, R.v.L. ; l.c., p. 181. P.J.
147 H. GIGANTEA, Ridley; R.v.L., l.c., p. 184. Off Green Point, P.J.
148 CACOSPONGIA MURRAYI, Polejaeff ; C.R., Vol. XI., p. 57, pl. iv., f. 3 ; pl. vi., f. 8. P.J.
149 C. VESICULIFERA, Polejaeff ; C.R., Vol. XI., p. 58, pl. iv., f. 2; pl. vi., f. 9. P.J.

Family HETERORRHAPHIDÆ.

150 STYLOTELLA DIGITATA, R.v.L. ; l.c., p. 185. Off Ball's Head, P.J. (Dr. Ramsay.)
151 S. RIGIDA, R.v.L. ; l.c., p. 186. P.J.
152 S. APLYSILLOIDES, R.v.L. ; l.c., p. 187. P.J.
153 RHIZOCHALINA RAMSAYI, R.v.L. ; l.c., p. 188. Off Shark Reef, P.J. (Dr. Ramsay.)

154 R. PETROSIA, R.v.L. ; l.c., p. 188. P.J.
155 R. PUTRIDOSUM, (Lamarck); Ridley & Dendy, C.R., Vol. xx., p. 33, pl. viii., f. 5, 5*a* ; pl. xix., f. 1—7. P.J.
156 GELLIODES POCULUM, Ridley & Dendy ; C.R., Vol. xx., p. 48, pl. x. ; R.v.L., l.c., p. 189. P.J.
157 GELLIUS PANIS, R.v.L. ; l.c., p. 189. P.J.
158 G. RAPHIDIOPHORA, R.v.L. ; l.c., p. 190. P.J.
159 G. FIBULATUS, (Schimdt); Ridley, Zool. of "Alert," p. 424. P.J.
160 TEDANIA RUBICUNDA, R.v.L. ; l.c., p. 190. P.J.
161 T. LAXA, R.v.L. ; l.c., p. 191. Off Ball's Head, P.J. (Dr. Ramsay.)
162 T. RUBRA, R.v.L. ; l.c., p. 191. Off Ball's Head, P.J. (Dr. Ramsay.)
163 T. TENUISPINA, R.v.L. ; l.c., p. 192. P.J.
164 T. DIGITATA, (Schimdt): Ridley & Dendy, C.R., p. 51, pl. xi., f. 3. P.J.
165 T. ——-, var. FIBROSA. P.J.

Family SPONGELIDÆ.

166 PHORIOSPONGIA LÆVIS, R.v.L. ; l.c., p. 193. Off Green Point, P.J.
167 P. RETICULUM, (Marshall) ; R.v.L., l.c., p. 193. Middle Harbour, P.J.
168 P. ——, var. PANIS, R.v.L. ; l.c., p. 195. P.J.
169 P. FIBROSA, Ridley ; Zool. of "Alert," p. 439, pl. xlii., f. g. P.J.
170 SIGMATELLA AUSTRALIS, R.v.L.; l.c., p. 195.
171 var. TUBARIA, (Marshall); R.v.L., l.c., 187. Shark Reef, P.J.
172 var. FLABELLUM, R.v.L. ; l.c., p. 198. Off Green Point, P.J.
173 S. MACROPSAMMA, R.v.L. ; l.c., p. 198. P.J.
174 S. CORTICATA, R.v.L.; l.c., p. 199. Off Shark Point, P.J.
175 var. PAPILLOSA, (Marshall); R v.L., l.c., p. 201. Maroubra Bay ; P.J.
176 var. FLABELLUM, R.v.L., l.c., p. 203. Off Green Point, P.J.
177 S. ——, var. SERRATA, R.v.L. ; l.c., p. 203. P.J.
178 PSAMMOPEMMA RUGOSUM, R.v.L. ; l.c., p. 205. P.J.
179 P. DENSUM, Marshall ; Zeits. f. Wissen. Zool. Bd. 35, p. 116, 1880 ; Polejaeff, C.R., Vol. XI. P.J.
180 SPONGELIA SPINIFERA, (F. E. Schulze) ; Polejaeff, C.R., Vol. XI., p. 41, 7 fath. off P.J.
181 S. ELASTICA, var. LOBOSA, (O. Schimdt) ; R.v.L., l.c., p. 208. Maroubra ; Coogee ; off Green Point, P.J.
182 S. CACOS, R.v.L. ; l.c., p. 209. P.J.
183 S. SAGUM, R.v.L. ; l.c., p. 209. Off Cockatoo Island, P.J.

Family DESMACIDONIDÆ.

184 Sideroderma navicelligerum, Ridley & Dendy; R.v.L., l.c., p. 210, pl. ii., f. 2. Off Green Point; Shark Reef, P.J.
185 S. Zittelli, R.v.L.; l.c., p. 211. P.J.
186 Esprella serpens, R.v.L.; l.c., p. 213. Off Shark Point, P.J.
187 E. penicillium, R.v.L.; l.c., p. 213. P.J.
188 E. Murrayi, Ridley & Dendy; C.R., Vol. xx., p. 67, pl. xiii., f. 11, 13, 14, 16, 17, 18; pl. xiv., f. 1, 1a. Off P.J.
189 E. porosa, Ridley & Dendy, l.c., p. 69, pl. xv., f. 6, 9, 17; pl. xvi., f. 5. Off P.J.
190 Esperiopsis cylindrica, Ridley & Dendy; l.c., p. 79, pl. xix., f. 2 *a*, *b*, *c*. 30 – 35 fath. off P.J.
191 Amphilectus ceratosus, Ridley & Dendy; l.c., p. 125, pl. xix., f. 10, 10*a*; pl. xxv., f. 6; pl. xlvii., f. 2. Off P.J.
192 Myxilla Jacksoniana, R.v.L.; l.c., p. 214. Off Green Point; Middle Harbour; P.J.
193 M. arborescens, Ridley; Zool. of "Alert," p. 433, pl. xl., f. g; pl. xliii., f. a,a. P.J.
194 Crella schimdtii, Ridley; Zool. of "Alert," p. 432, pl. xli., f. a, a. P.J.
195 Clathriodendron aruscula, R.v.L.; l.c., p. 215. Off Ball's Head, P.J.
196 C. irregularis, R.v.L.; l.c., p. 215. P.J.
197 Clathrissa arbuscula, R.v.L.; l.c., p. 217, pl. v., f. 2. Ball's Head Bay, P.J.
198 C. elegans, R.v.L.; l.c., p. 218. Maroubra Bay, (W.) P.J.
199 C. pumila, R.v.L.; l.c., p. 218. P.J.
200 var. rubra, R.v.L.; l.c., p. 212. P.J.
201 Clathria Lendenfeldi, Ridley & Dendy; C.R., Vol. xx., p. 148, pl. xxviii., f. 5; pl. xxix., f. 6; pl. xlvii., f. 5. Off P.J.
202 C. pyramida, R.v.L.; l.c., p. 222. Off Green Point, P.J.
203 Echinoclathria Carteri, Ridley & Dendy; l.c., p. 162, pl. 29, f. 12, 12a; pl. xxxi., f. 3, 3a. Off P.J.
204 Echinonema anchoratum, Carter; Ann. & Mag. N.H., 5 Ser., Vol. vii., p. 378, (1881); R.v.L., l.c., p. 219.
205 var. ramosa, R.v.L.; l.c., p. 219. P.J.
206 E. laevis, R.v.L.; l.c., p. 220. Off Green Point, P.J.
207 E. rubra, R.v.L.; l.c., p. 221. P.J.
208 Thallasodendron rubens, R.v.L.; l.c., p. 223. Off Shark Reef, P.J.
209 var. dura, R.v.L.; l.c., p. 224. Maroubra Bay, (W.) P.J.
210 var. lamella, R.v.L.; l.c., p. 224, pl. vii. Off Ball's Head, P.J.
211 T. paucispina, R.v.L.; l.c., p. 224. P.J.
212 Plectispa elegans, R.v.L.; l.c., p. 226. Maroubra Bay, (W.); P.J.

213 P. ARBOREA, R.v.L.; l.c., p. 226. Maroubra Bay,(W.); P.J.
214 CLATHRIOPSAMMA LOBOSA, R.v.L.; l.c., p. 227. Off Ball's Head, P.J.

Family AULENIDÆ.

215 AULENA LAXA, R.v.L.; l.c., p. 228. Off Green Point; off Ball's Head, P.J.
216 var. MINIMA, R.v.L.; l.c., p. 228. P.J.
217 var. DIGITATA, R.v.L.; l.c., p. 229. P.J.
218 A. GIGANTEA, R.v.L.; l.c., p. 230. Off Green Point, P.J.
219 var. MACROPORA, R.v.L.; l.c., p. 231. Off Green Point, P.J.

Family AXINELLIDÆ.

220 AXINELLA HISPIDA, (Montagu); R.v.L.
221 var. GRACILIS, R.v.L.; l.c., p. 235. Maroubra Bay,(W.); P.J.
222 var. TENELLA, R.v.L.; l.c., p. 235. P.J.
223 A. AURANTIACA, R.v.L.; l.c., p. 235, pl. v,, f. 1. Maroubra Bay, (W.); P.J.
224 A. INFLATA, R.v.L.; l.c., p. 236. P.J.
225 A. OBTUSA, R.v.L.; l.c., p. 236. P.J.
226 A. ARBORESCENS, Ridley & Dendy; C.R., Vol. XX., p. 178, pl. XXXV., f. 4, 4a. P.J.
227 PHAKELLA FLABELLATA, Ridley & Dendy; l.c., p. 171, pl. XXXIV., f. 2, 3, 3*a*. Off P.J.
228 HYMENIACIDON CARUNULA, Bowerbank; Brit. Sponges, p. 146, pl. xiii., f. 7 – 8; Ridley, Zool. of "Alert," 465. P.J.
229 H. AGMINATA, Ridley; Zool. of "Alert," p. 146, pl. xli., f. e; pl. xliii., f. f, f. P.J.

CNIDARIA.

ACTINOZOA.

ALCYONARIA=OCTACTINIA.

Order ALCYONACEA.

Family CORNULARIIDÆ.

230 CORNULARIA? AUSTRALIS, Busk.; Q. J. Micro. Sci., 1867, p. 243, pl. XXXVI., f. 7 – 9. This species probably belongs to the Genus *Sarcodictyon*. Maroubra Bay, on *Catenicella plagiostoma*, (W.)
231 CLAVULARIA ROSEA,? Studer Monatsberichte, Akad. Wissen. Berlin, 1878, p. 633, pl. i., f. 1 *a-b*. Creeping over shells and stones, Taylor Bay; Watson's Bay, (W.)

232 C. sp. A cream coloured species rather less than the preceding. Under stones at Watson's Bay ; Rose Bay ; and in 16 fms. off Ball's Head, P.J. (W.)

233 Telesto Smithii, Gray ; Ann. & Mag. N.H. (4) Vol. iii., p. 21, figure (woodcut) 1869. Common under rock ledges at low water, Vaucluse Point ; Middle Harbour ; and in 16 fms. off Ball's Head, P.J. (W.)

234 Sympodium sp. This species forms thin incrusting patches 6 to 10 inches in diameter on stones, the colour being bluish-grey, whilst the polyps are brown and longitudinally sulcate. Rose Bay ; Watson's Bay, P.J. (W.)

Family ALCYONIDÆ.

235 Alcyonium sp. Off Ball's Head, P.J.

Family NEPHTHYIDÆ.

236 Eunephthya fusca, Wright & Studer ; C.R., Vol. xxxi., p. 190, pl. xxxvi., f. 1, *a-b*. Under rock ledges Middle Harbour (W); Station 163 A. off P.J.

237 Spongodes florida, Esper. ; Gray, P.Z.S., 1862, p. 27, pl. iv., f. 1 – 4. Off Green Point P.J.

Order PENNATULACEA.

Family PTERŒIDIDÆ.

238 Ptereoides Lucazii, Kolliker, var. spinosa, Anat. Syst. Beschreib. der Alcyonarien, 1872, p. 60 – 62, f. 15 – 17, and p. 355. Off Green Point, P.J.

239 P. sp. Off Ball's Head, P.J.

240 Sarcophyllum grande, Gray ; Proc. Z. Soc., 1848, p. 45 ; Koll., l.c., p. 121 and 364, pl. viii., f. 66 A, B,a. Common off Green Point, P.J.

Family PENNATULIDÆ.

241 Pennatula Moseleyi, Kolliker ; C.R., Vol. i., p. 7, pl. ii., f. 8-9, Station 164, off P.J.

Family VIRGULARIDÆ.

242 Virgularia elegans, Gray ; Catalogne of Sea Pens. in British Museum, p. 15 ; Kolliker, Anat. Syst. Alcyonarien 1872, p. 60-62, f. 15-17, also p. 355. Off Green Point, P.J.

243 V. Lovenii, Koll. ; l.c., p. 201, pl. xiii., f. 121, 122. Off Ball's Head, P.J.

244 V. sp. Off Ball's Head, P.J.

245 V. sp. Off Shark Island, P.J.

Family CAVERNULARIDÆ.

246 CAVERNULARIA OBESA, Val.; Koll., l.c., p. 338, pl. xxii., f. 199, 200, 201. Off Green Point, P.J.

Family LITUARIDÆ.

247 POLICELLA AUSTRALIS, Gray ; Cat. of Sea Pens., p. 33 ; Koll., l.c., p. 321, P.J.

248 CLAVELLA AUSTRALASIÆ, Gray ; Cat. of Sea Pens., p. 33 ; Koll., 322, pl. 22, f. 194. Off Ball's Head ; off Green Point, P.J.

Order GORGONACEA.

Section SCLERAXONIA.

Family BRIAREIDÆ.

249 SUBERIA GENTHI, Wright & Studer ; C.R., Vol. XXXI., p. 163, pl. xl., f. 1. In shallow water, off P.J.

Family MELITODIDÆ.

250 MOPSELLA COCCINEA, Ellis & Solander ; Natural History of Zoophytes, 1786, p. 107, pl. xii., f. 5. Under rocks and stones, Watson's Bay, (W.)

251 PARISIS AUSTRALIS, Wright & Studer ; C.R., Vol. XXXI., p. 183, yl. xli., f. 3. Station 163 B, off P.J. There is a series of specimens of this species in the Australian Museum also obtained off P.J.

Section II. HOLAXONIA.

Family ISIDÆ.

Sub-Family MOPSEINÆ.

252 MOPSEA DICHOTOMA, Linne ; W. & S., C.R., Vol. XXXI., p. 41, pl. ix., f. 10. Off P.J. 30 – 35 fms.

253 ACANTHOISIS FLABELLUM, Wright & Studer ; C.R., Vol. XXXI., p. 45, pl. viii., f. 1. This species is bright red when alive. Maroubra Bay (W.); off P.J. 30 – 35 fms.

Family PRIMNOIDÆ.

254 PLUMARELLA PENNA, Lamarck ; = *Cricogorgia ramea*, M.-Ed. Hist. Nat. Corall., pl. B 2, f. 6. Off P.J.

255 PRIMNŒLLA GRANDISQUAMIS, Wright & Studer ; C.R., Vol. XXXI., p. 86, pl. xvii., f. 4 ; pl. xxi., f. 1-3. Station 163 A off P.J.

256 P. AUSTRALASIÆ, Gray ; P.Z.S., 1849, p. 146, pl. ii., f. 8-9 ; C.R., Vol. XXXI., p. 88, pl. xviii., f. 1 ; pl. xxi., f. 15. Off P.J.

Family PLEXAURIDÆ.

257 PLEXAURA SP. Off Ball's Head, P.J.

Family ? ?

258 SYDELLA AUSTRALIS, Gray ; P.Z.S., 1872, p. 747, pl. lxiii., f. 7-8. Described from a drawing (by Dr. Hooker) Sydney.

ZOANTHARIA=HEXACTINIA.

Family ACTINIDÆ.

259 PARACTIS PAPAVER, Drayton in Dana, U. S. Expl. Exp., Zoophytes p. 143, pl. iv., f. 29. Common under stones, Coogee, Bondi (W.)

260 PHYMACTIS VERATRA, Drayton in Dana, l.c., p. 129, pl. i., f. 3. Common in Port Jackson and at Coogee Bay (W.)

261 OULACTIS MUSCOSUM, Drayton, Dana, l.c., p. 153, pl. v., f. 42. Common in rock-pools, Coogee, Bondi (W.)

262 CEREUS TUBERCULOSUS, Quoy and Gaimard; Voy. "Astrolabe" p. 159, pl. xi., f. 3-6. On the beach, Coogee Bay (W.) ; off Green Point, (Dr. Ramsay).

263 PHELLIA SP. Under stones Neutral Bay (W.)

264 BUNODES SP. Rose Bay (W.)

265 CERIANTHUS SP. Lives as a commensal with *Phoronis Australis* off Ball's Head (Dr. Ramsay).

266 ADAMSIA SP. Parasitic on Cellepora off Green Point (W).

267 ZOANTHUS SP. Littoral, Bradley's Head, P.J. (W.)

268 POLYTHOA SP. A small incrusting species covered with sand grains, growing on a sponge *(Papillissa lutea)*, (W.)

MADREPORARIA APOROSA.

Family TURBINOLIDÆ.

269 SPHENOTROCHUS EXCAVATUS, Tenison-Woods; P.L.S., N.S.W. Vol. II., p. 308, pl. iv., f. 1 *a*, *b*, *c*. Very rare, P.J. (John Brazier.)

270 CONOCYATHUS ZEALANDIÆ, Duncan ; P.Z.S., London, 1876, p. 431, pl. xxxviii., f. 1-3. Frequent in dredgings of Green Point, P.J.

271 C. COMPRESSUS, Ten.-Woods ; P.L.S., N.S.W., Vol. II., p. 302, pl. v., f. 1 and 6. Dredged at Quarantine Station, P.J. (Dr. E. P. Ramsay.)

272 DUNOCYATHUS PARASITICUS, Ten.-Woods, l.c., p. 305, pl. v., f. 4 *a*, *b*. Dredged off P.J. (John Brazier). This species is imbeded in the base of a species of Polyzoa *Bipora angulopora*, Ten.-Woods. (In Macleay Museum.)

Family POCILLOPORIDÆ.

273 POCILLOPORA? SP. Long Bay (Ed. McIntosh.)

Family ASTRÆIDÆ.

274 CYLICIA QUINARIA, Ten.-Woods, l.c., p. 326, pl. v., f. 3 *a, b, c.* Very common under stones, all round Port Jackson, Mossman's Bay, Neutral Bay, Watson's Bay (W.)

275 C. TENELLA, Dana; U.S. Expl. Exp., Zoophytes, 377, pl. xxviii., f. 6, 6*a-b*. Rare, under stones, Watson's Bay P.J. (W.)

276 PLESIASTRAEA URVILLEI, Edwards & Haime, Ann. des Sci. Nat., 3 Ser., Vol. x., pl. ix., f. 2, 2*a*, and Vol. XII., p. 117; Quoy & Gaimard, Voy. "Astrolabe," Zoophytes, p. 216, pl. xvii., f. 10 – 14. (*Astraea galaxea).* Frequent at Taylor Bay; Watson's Bay P.J. (W.)

Family LOPHOSERIDÆ.

277 LOPHOSERIS CRISTATA, Ellis & Solander, Nat. Hist., Zoophytes p. 158, pl. xxxi., f. 3-4; Tenison-Woods, l.c., p. 331. Manly Beach.

MADREPORARIA PERFORATA.

Family EUPSAMMIDÆ.

278 BALANOPHYLLIA BUCCINEA, Ten.-Woods; l.c., p. 339, pl. v., f. 5 *a, b, c*; and pl. iv., f. 5. Under stones Cabbage Tree Bay, P.J. (W.)

279 EUDOPACHYS AUSTRALIÆ, Ten.-Woods, l.c., p. 333, pl. vi., f. 1 *a, b, c.* Off P.J., 80 fathoms.

280 HETEROPSAMMIA ELLIPTICA, Ten.-Woods, l.c., p. 339, pl. vi., f. 3 *a, b.* Off P.J., 16 fathoms.

281 DENDROPHYLLIA AUREA, Quoy & Gaim., Voy. "Astrolabe," Vol. IV., p. 195, pl. XV., f. 7 – 11; Ed. & H., Hist. Nat. Corall., Vol. III., p. 130, P.J.

HYDROZOA.

Order HYDROMEDUSÆ.

Sub-Order HYDROPOLPINÆ.

Family CLAVIDÆ.

282 CLAVA SIMPLEX, R.v.L.; Proceedings Linnean Society N.S. Wales, Vol. IX., p. 349. Littoral, P.J.

Family CERATELLIDÆ.

283 CERATELLA FUSCA, Gray; Bale, C.H.Z., p. 48; P.L.S., N.S. Wales, Vol. III., Ser. 2, p. 748. Coogee Bay (W.)

Family EUDENDRIDÆ.

284 EUDENDRIUM PUSILLUM, R.v.L.; l.c., p. 352. Littoral, P.J.

Family BLASTOPOLYPIDÆ.

285 LAOMEDEA MARGINATA, Bale, Cat. Hydroid Zoophytes, p. 54, pl. i., f. 2. Littoral, on stones Vaucluse Point, and on seaweeds Coogee Bay (W.)

286 L. UNDULATA, Lamx.; Bale, C.H.Z., p. 55, pl. ii., f. 4. P.J.

287 LAFŒA SCANDENS, Bale, P.L.S., N.S.W., Vol. III., Ser. 2, p. 758, pl. xiii., f. 16-19. On *Sertularella divaricata*, var. *sub-dichotoma*, off Ball's Head, P.J. (W.)

288 HALECIUM TELESCOPICUM, Allman, C.R., Vol. XXIII., p. 10, pl. v., f. 1, 163 B. P.J.

289 H. GRACILE, Bale; l.c., p. 759, pl. xiv., f. 1-3. P.J.

290 H. PARVULUM, Bale; l.c., p. 760, pl. xiv., f. 4-5. On sponge Bondi, (W.)

291 LINEOLARIA SPINULOSA, Hincks; Ann. & Mag. N.H. (3) Vol. VII., 1861; Bale, C.H.Z., p. 61, pl. i., f. 10-11; pl. xix., f. 38. On Zosteria Botany Bay; Middle Harbour (W.)

292 SYNTHECIUM ORTHOGONIUM, Busk; Voy. of "Rattlesnake," Bale, C.H.Z., p. 88, pl. ix., f. 11; P.L.S., N,S.W., p. 767, pl. xvii., f. 1-5. Common off Ball's Head and at Green Point (W.)

293 S. CAMPYLOCARPUM, Allman; C.R., Vol. XXIII., p. 78, pl. xxxvii., f. 1 *a*, *b*. *c*. Off P.J.

294 S. ALTERNANS, All.; C.R., Vol. XXIII., p. 80, pl. xxxvii., f. 2, 2a. Off P.J.

295 SERTULARELLA DIVARICATA, Busk; Voy. of "Rattlesnake,' Bale, C.H.Z., p. 110, pl. iii., f. 9; pl. xix., f. 20.

296 var. SUB-DICHOTOMA, Bale; P.L.S., N.S.W., p. 761, pl. xvi., f. 3-4. Off Ball's Head.

297 var. DUBIA, Bale; l.c., p. 761, pl. xvi., f. 1-2. Bondi Bay (W.)

298 S. SOLIDULA, Bale, C.H.Z., p. 106, pl. iii., f. 6; pl. xix., f. 28. P.L.S., N.S.W., p. 765, pl. xv., f. 3-4. On seaweeds Bondi Bay (W.)

299 S. LONGITHECA, Bale, P.L.S., N.S.W., p. 762, pl. xvi., f. 5-6. P.J., (W.)

300 S. VARIABILIS, Bale, P.L.S., N.S.W., p. 765, pl. xv., 5-9. Bondi Bay; Coogee Bay (W.)

301 S. CYLINDRICA, Bale, l.c., p. 765, pl. xvi., f. 7. Off Ball's Head, P.J.

302 DIPHASIA PINNATA, Pallas; Bale, C.H.Z., p. 98, pl. ix., f. 1. Off Ball's Head, P.J.

303 D. SUBCARINATA, Busk; Bale, C.H.Z., p. 102, pl. iv., f. 1; pl. xix., f. 18. Washed ashore at Maroubra Bay, (W.)

304 PASYTHEA QUADRIDENTATA, Ellis & Solander; Bale, C.H.Z., p. 112, pl. vii., f. 3; P.L.S., N.S.W., p. 770, pl. xiv., f. 6-7. On seaweeds, common, Coogee; Bondi, (W.)

305 THUIARA LATA, Bale, C.H.Z., p. 120, pl. vii., f. 4. Maroubra Bay; off Ball's Head, P.J. (W.)

306 T. SINUOSA, Bale, P.L.S., N.S.W., 1888, p. 772. Washed ashore at Maroubra Bay, (W.)

307 T. SUBARTICULATA, Coughtrey; Bale, P.L.S., N.S.W., 1888, p. 746, pl. vii., f. 4-5. Washed ashore at Maroubra, (A. J. Coates).

Family PLUMULARIDÆ.

308 AZYGOPLON PRODUCTA, Bale, C.H.Z., p. 133, pl. x., f. 4; P. L.S., N.S.W., p. 774, pl. xix., f. 1-5. Coogee Bay; Botany Bay (W.)

309 PLUMULARIA RUBRA, R.v.L., P.L.S., N.S.W., Vol. IX., p. 476, pl. xiii., f. 11-12; pl. xiv., f. 15; Bale, P.L.S., N.S.W., p. 778, pl. xx., f. 1-6. Off Ball's Head and off Green Point, P.J.

310 P. CALICULATA, Bale, P.L.S., N.S.W., p. 781, pl. xx., f. 9-10. Bondi Bay; Port Jackson (W.)

311 P. SP. Washed ashore at Maroubra Bay.

312 P. SETACEOIDES, Bale, C.H.Z., p. 136, pl. xi., f. 8; pl. xix., f. 36; P.L.S., N.S.W., p. 781, pl. xx., f. 7-8. Middle Harbour; Bondi Bay, (W.)

313 P. SPINULOSA, Bale, C.H.Z., p. 139, pl. xii., f. 11, 12; P.L.S., N.S.W., p. 783, pl. xix., 11-13. On seaweeds Coogee Bay(W)

314 P. PULCHELLA, Bale, C.H.Z., p. 140, pl. xii., f. 6; pl. xix., f. 37; P.L.S., N.S.W., p. 784. On seaweeds Bondi Bay(W.)

315 P. COMPRESSA, Bale, C.H.Z., p. 142, pl. xii., f. 9-10; pl. xix., f. 30, 40; P.L.S., N.S.W., p. 784, pl. xix., f. 14. On Zosteria, Botany Bay (W.)

316 P. AURITA, Bale, P.L.S., N.S.W., Vol. III., Ser. 2, p. 784, pl. xix., f. 15-19. On Zosteria, Botany Bay, (W.)

317 P. ARMATA, Allman, C.R., Vol. VII., p. 19, pl. i., f. 5-6. Station 163 off P.J.

318 P. LAXA, Allman, C.R., Vol. VII., p. 22, pl. iv., f. 3-4. Station 163 A, off P.J.; 30 B, 5 fms.

319 HALICORNARIA PROLIFERA, Bale, C.H.Z., p. 183, pl. xiv., f. 1; pl. xvi., f. 10. On the root-like base of seaweed, Coogee Bay (W.)

320 H. LONGIROSTRIS, Kirchenpauer; Bale, C.H.Z.. p. 181, pl. xiii., f. 7; pl. xvi., f. 3; pl. xix., f. 30. Often found with the preceding species, Coogee Bay, (W.)
321 H. ASCIDIOIDES, Bale, C.H.Z., p. 176, pl. xiii., f. 2; pl. xvi., f. 1. Maroubra Bay; Coogee Bay, (W.)
322 H. FURCATA, Bale, C.H.Z., p. 178, pl. xiii., f. 3; pl. xvi., f. 5. Washed ashore at Maroubra (W.)
323 AGLAOPHENIA PARVULA, Bale, C.H.Z., p. 165, pl. xiv., f. 3; pl. xvii., f. 10; P.L.S., N.S.W., p. 790. Coogee Bay; Vaucluse Point (W.)
324 A. MACROCARPA, Bale, P.L.S., N.S.W., p. 791, pl. xxi., f. 3-4. Off P.J.
325 A. DIVARICATA, Busk; Bale, C.H.Z., p. 162, pl. xv., f. 7-8; pl. xvii., f. 6-7. Bondi, Coogee, Watson's Bay, (W.)
326 A. PLUMOSA, Bale, C.H.Z., p. 153, pl. xiv., f. 5; pl. xvii., f. 12. On Boltenia, Middle Harbour; Bondi; Coogee; Botany, (W.)
327 A. WHITELEGGEI, Bale, P.L.S., N.S.W., p. 794, pl. xxi., f. 8. Off Green Point, P.J., (W.)
328 A. SINUOSA, Bale, P.L.S., N.S.W., 1888, p. 790, pl. xxi., f. 1-2. Washed ashore at Maroubra Bay (W.)

Sub-Order HYDROMEDUSIDÆ.

Family ANTHOMEDUSIDÆ.

329 SARSIA RADIATA, R.v.L., P.L.S., N.S.W., Vol. IX., p. 583, pl. XX., f. 31. P.J.
330 S. MINIMA, R.v.L., l.c., p. 584, pl. xxi., f. 34. P.J.
331 S. SP. On seaweed in rock pools Rose Bay (W.)
332 EUPHYSA AUSTRALIS, R.v.L., l.c., p. 586, pl. xxi., f. 23. P.J.
333 PANDAEA MINIMA, R.v.L., l.c., p. 909-916, pl. xlii., f. 10-12. August-September, P.J.
334 TURRITOPSIS LATA, R.v.L., l.c., p. 588, pl. xxii., f. 36. Summer and Autumn. P.J.
335 LIZUSA PROLIFERA, R.v.L., l.c., p. 589, pl. xxiii., f. 38-39. April-March. P.J.
336 MARGELIS TRINEMA, R.v.L., l.c., p. 918, pl. xli., f. 13. Early spring. P.J.

Family TUBULARIDÆ.

337 PENNARIA AUSTRALIS, Bale, C.H.Z., p. 45; P.L.S., N.S.W., Vol. III., Ser. 2, p. 747, = *Pennaria rosea*, R.v.L., P.L.S., N.S.W., Vol. IX., p. 594, pl. xxiv., f. 40-42. On piles, Circular Quay; Green Point, (W.)
338 P. ADAMSIA, R.vL., P.L.S., N.S.W., p. 595, pl. xxv., f. 45, 48; pl. xxvi., f. 49. P.J.

339 TUBULARIA SPONGICULA, R.v.L., l.c., p. 597, pl. xxvi., f. 50. Middle Harbour, P.J., (W.)
340 T. GRACILIS, R.v.L., l.c., p. 597, pl. xxvii., f. 51, 52. Off Ball's Head ; on piles Circular Quay, P.J., (W.)

Family LEPTOMEDUSÆ.

341 OCTORHOPALON FERTILIS, R.v.L., l.c., p. 919, pl. xlii., f. 14-15. Early spring, P.J.
342 EUCOPE HYALINA, R.v.L., l.c., p. 920, pl. xlii., f. 16, 17, 18. Early spring P.J.
343 OBELIA GENICULATA, Linne ; Bale, C.H.Z., p. 59 pl. ii., f. 2. On seaweed, Middle Harbour, (W.)
344 O. ANGULOSA, Bale, P.L.S., N.S.W., p. 752, pl. xii., f. 3. On piles Callan Park, Parramatta River, (W.)
345 O. AUSTRALIS, R.v.L., P.L.S., N.S.W., Vol. IX., p. 604 ; Bale, P.L.S., N.S.W., p. 753, pl. xii., f. 1-2. P.J.
346 TIARROPSIS MACLEAYI, R.v.L., P.L.S., N.S.W., Vol. IX., p. 605, pl. xxiii., f. 37. April-July. P.J.
347 MITROCOMIUM ANNAE, R.v.L., l.c., p. 606, pl. xxix., f. 58-60. April-June. P.J.
348 EUCOPELLA CAMPANULARIA, R.v.L. ; Zeits. für Wissenschaftliche Zoologie, Band XXXVIII., p. 497 ; Bale, P.L.S., N.S.W., p. 751, pl. xiii., f. 9-15. Very common on seaweeds, Middle Harbour ; Coogee ; Bondi, (W.)

Family CAMPANULINIDÆ.

349 CAMPANULARIA CALICULATA, Hincks, Ann. & Mag. N.H., (3) Vol. XI. ; Bale, P.L.S., N.S.W., p. 755, pl. xiii., f. 1-3. Middle Harbour, (W.)
350 C. SPINULOSA, Bale, l.c., p. 756, pl. xii., f. 5-7. Off Ball's Head, P.J.
351 C. SERRULATA, Bale, l.c., p. 457, pl. xii., f. 4. Off Ball's Head, P.J.
352 C. TINCTA, Hincks, Ann. & Mag., N.H., 1861 ; Bale, C.H.Z., p. 57, pl. i., f. 4-6. Middle Harbour, (W.)
353 SERTULARIA COMPLEXA, Clarke ; Bale, l.c., p. 769, pl. xviii., f. 1-4. Bondi Bay, (W.)
354 S. ELONGATA, Lamx. ; Bale, C.H.Z., p. 75, pl. vi., f. 7-8 ; pl. xix., f. 7 ; P.L.S., N.S.W., p. 770. Bondi ; Coogee, (W.)
355 S. UNGUICULATA, Busk ; Bale, C.H.Z , p. 76, pl. vi,, f. 9-12. On seaweeds, Coogee ; Bondi (W.)
356 S. MINIMA, D'A. Thompson ; Bale, C.H.Z., p. 89, pl. iv., f. 9-10 ; pl. xix., f. 12-13. Coogee ; Bondi (W.)
357 S. BIDENS, Bale, C.H.Z., p. 70, pl. vi., f. 6 ; pl. xix., f. 1. On the roots of Laminarians, Maroubra. (Mr. A. J. Coates.)

358 S. MAPLESTONEI, Bale, Cat. Hydroida, p. 70, pl. vi., f. 4; pl. xix., f. 2. Hunter's Beach, Middle Harbour. (A. J. Coates.)
359 S. MACROCARPA, Bale, Cat. H.Z., p. 80, pl. v., f. 2; pl. xix., f. 11. Hunter's Beach; Maroubra. (A. J. Coates.)
360 S. OPERCULATA, Linne; Bale, Cat. H.Z., p. 67, pl. vi., f. 1; pl. xix., f. 3. Hunter's Beach. (A. J. Coates.)

SIPHONOPHORA.

361 DIPHYES SP. See P.L.S., N.S.W., Vol. x., p. 187. Abundant on the beach, (April 1885) Coogee Bay, (W.)
362 PHYSOPHORA CUPULITA, (Boodwich); Q. & G., Voy. de l'Uranie, pl. lxxxvii., f. 14-16; Lesson, Zoop. Acephales, p. 508. P.J.
363 PHYSALIA MEGALISTA, Brandt, Prod. 36; Lesson, Zoop. Acephales, p. 558; Peron & Lesueur, Voy. Dec. aux. terres australis, pl. xxxix., f. 1. Common after gales, Bondi; Coogee; P.J. (W.)
364 P. UTRICULUS, Eschscholtz, System der Acalephen, 1829, p. 163, pl. xiv., f. 2-3. Common after gales, Coogee and Bondi; P.J. (W.)
365 VELELLA CYANEA, Lesson, Voy. Coquille, p. 54, pl. vi., f. 3-4. Coogee Bay, May 28, 1889, (W.)
366 V. PACIFICA? Esch., System der Acalephen, p. 174, pl. xiv., f. 4. Coogee Bay, May 28, 1889, (W.)
367 PORPITA SP. Coogee Bay, May 28, 1889, (W.)

SCYPHOMEDUSÆ.

Order CUBAMEDUSÆ.

Family CHORYBDEIDÆ.

368 PROCHARYBDIS FLAGELLATA, Lesson, Prod. 27, and Zoophytes Acephales 1843, p. 278; R. v. Lendenfeld, Cat. Medusæ, Australian Seas, p. 16. P.J.

Order DISCOMEDUSÆ.

Sub-Order SEMOSTOMÆ.

Family CYANIDÆ.

369 STENOPTYCHA ROSEA, Quoy & Gaimard, 1827, Voy. de l'Uranie, Zool., p. 570, pl. lxxxv., f. 1-2; Cat. Medusæ Austr., p. 19. P.J.
370 CYANEA ANNASKALA, R.v.L., Zeits. für Wissen. Zoologie, Bd. XXXVII., p. 465, pl. xxvii.-xxxiii.; Cat. Medusæ Austr., p. 20; P.L.S., N.S.W., Vol. IX., p. 928.

371 var. MARGINATA, R.v.L. November-March, P.J.

Family AURELIDÆ.

372 AURELIA CAERULEA, R.v.L., P.L.S., N.S.W., Vol. IX., p. 281, Cat. Medusæ Austr., p. 22. August-December, P.J. (W.)

Sub-Order RHIZOSTOMÆ.

Family CEPHEIDÆ.

373 PHYLLORHIZA PUNCTATA, R.v.L., P.L.S., N.S.W., Vol. IX., p. 296, pl. iv.; Cat. of the Medusæ of the Australian Seas pt. i., p. 29. March 16, 1889, P.J. (W.)

Family CRAMBESSIDÆ.

374 CRAMBESSA MOSAICA, Q. & G., Voy. de l'Uranie, p. 569, pl., lxxxv., f. 3; R.v.L., Cat. Medusæ Aust., p. 30.

375 var. SYMBIOTICA, R.v.L., l.c., p. 31, and P.L.S., N.S.W., Vol. IX., p. 925. P.J., (W.)

Family LEPTOBRACHIDÆ.

376 LEONURA LEPTURA, Haeckel, Das. Syst. der Medusen, p. 361, P.L.S, N.S.W., Vol. IX., p. 305; Cat. Medusæ Austr. p. 32. November 30, 1885, P.J.

CTENOPHORA.

377 NEIS CORDIGERA, Lesson, Voy. Coquille, p. 10, pl. xvi., f. 2; Lesson, Zoop. Acephales, p. 97; R.v.L., P.L.S., N.S.W., Vol. IX., p. 968; T.-W., P.L.S., N.S.W., Vol. III., 2 Ser., pt. ii., p. 892. March-June, P.J. (W.)

378 BOLINA CHUNI, R.v.L., P L.S., N.S.W., Vol. IX., p. 930, pls. xliv.-xlv., f. 1-5. August-September, P.J. (W.)

Sub-Kingdom ECHINODERMATA.

Class I. CRINOIDEA.

Family COMATULIDÆ.

1 EUDIOCRINUS SEMPERI, Carpenter, C.R., Vol. XXVI., p. 84, pl. iii., f. 7; pl. vi., f. 1-3. Off P.J.

2 ANTEDON PUMILA, Bell, Zool. "Alert," p. 157, pl. x., f. 3 *a. b.* In the description of this species the first pinnules are said to be the shortest, this is incorrect, the first pinnules are the longest. Very common in deep water, occasionally found under stones, Taylor Bay; Watson's Bay. The stalked or larval form is often found attached to seaweeds. August-September, (W.)

3 A. MACRONEMA, Mull., Monats. d. K. Akad. d. Wiss., 1846, p. 179; C.R., Vol. XXVI., p. 212, pl. iv., f. 3 *a-d;* pl. xxxviii., f. 45. Trawled near Sow and Pigs Reef, (Dr. Ramsay.)

4 A. SPINICIRRA, Carpenter, C.R., Vol. XXVI., p. 112, pl. xlvii. Station 164, off P.J.

5 ACTINOMETRA TRICHOPTERA, Val.; Carpenter, C.R., Vol. XXVI., p. 345, pl. v., f. 5; pl. lviii. Common under stones at low water, Watson's Bay (W.)

Class II. STELLERIDA.

Order I. OPHIUROIDEA.

Family OPHIURIDÆ.

6 OPHIOPEZA YOLDII, Lutken, Vid. Meddel, Jan. 1856, p. 9; Addit ad Hist., pt. ii., p. 98, 1859; Lyman, Bull. Mus. Com. Zool. Vol. III., pt. x., p. 221. Off Twofold Bay, (Challenger).

7 O. FALLAX, Peters, Monatsb. Konig. Akad. Berlin, 1851, p. 465; C.R., p. 13, pl. xli., f. 1-3. Dredged in P.J. (Dr. E. P. Ramsay).

8 O. ÆQUALIS, Lyman, C.R., Vol. v., p. 12, pl. xxvii., f. 7, 9. Dredged in P.J. (Dr. E. P. Ramsay.)

9 O. ASSIMILIS, Bell, P.Z.S., 1888, p. 282, pl. xvi., f. 5.

10 PECTINURA ARENOSA, Lyman, C.R., Vol. v., p. 15, pl. xxiii., f. 10-12. Dredged off Green Point, (Dr. E. P. Ramsay).

11 P. GORGONIA, Lutken, Addit. ad. Hist. pt. iii., p. 33, 1869. Dredged off Green Point, (Dr. E. P. Ramsay); under stones Watson's Bay (W.)

12 P. MARMORATA, Lyman, Bull. Mus. Com. Zool., Vol. III., pt. x., p. 222, pl. v., f. 1-7. Under stones, Taylor Bay; Watson's Bay, (W.)

13 P. RAMSAYI, Bell, Proc. Z. Soc., 1888, p. 281, pl. xvi., f. 1. Dredged (Dr. E. P. Ramsay); under stones Taylor Bay; Watson's Bay.

14 OPHIOLEPIS ANNULOSA, M. & Troc., Wiegmann's Archiv., Vol. VI., p. 328, 1840; Syst. Aster., p. 89; Lutken, Addit ad Hist., pt. ii., p. 100, pl. ii., f. 5; Lyman, Ill. Cat. Mus. Com. Zool., No. 1, p. 58. Dredged in P.J. (Dr. Ramsay.)

15 OPHIOGLYPHA KINBERGI, Ljungman; Lyman, C.R., Vol. v., p. 39, pl. iv., f. 7. Dredged in P.J. (Dr. E. P. Ramsay.)

16 O. MULTISPINA, Ljungman, Oph. Viv. öf. Kong. Akad. p. 307, 1866; Lyman, Bull. Mus. Com. Zool., Vol. v., pt. vii., p. 79; C.R., p. 41.

17 O. PALLIATA, Lyman, C.R., Vol. v., p. 43, pl. iv., f. 4-6. Station 164 A. Off P.J., 400 fms.

18 O. IRRORATA, Lyman, C.R., p. 47, pl. v., f. 7-9. Station 164 A, off P.J., 400 fms.

19 O. JEJUNA, Lyman, C.R., p. 52, pl. v., f. 4-6. Station 164 A, off P.J., 400 fms.

20 OPHIOMUSIUM FLABELLUM, Lyman, C.R., Vol. v., p. 98, pl. iii., f. 4-6. Off P.J., 30 – 35 fams.

21 OPHIOMASTUS TEGULITIUS, Lyman, C.R., p. 100, pl. viii., f. 16-18. Station 164, off P.J., 950 fms.

22 OPHIACTIS RESILIENS, Lyman, C.R., p. 115, pl. xx., f. 7-9. P.J. ("Challenger.")

23 O. HIRTA, Lyman, C.R., p. 118, pl. xx., f. 4-6. Station 164 A. off P.J., 400 fms.

24 O. SAVIGNII, M. & T., Syst. Ast., p. 95 ; C.R., p. 115. P.J.

25 AMPHIURA CONSTRICTA, Lyman, C.R., p. 131, pl. xvi., f. 11-14. Under stones Watson's Bay, (W.); P.J. 2 – 10 fms., ("Challenger.")

26 A. SQUAMATA, Sars ; Lyman, C.R., p. 136. Station, 163, 120 fms., ("Challenger.")

27 A. PERPLEXA, Stimpson, Proc. Acad. N. Sc. Phil., Vol. VII., 1854, p. 386 ; C.R., p. 144. P.J.

28 A. LOBATA, Ljungman, Oph. Viv. Of. Kong. Akad., 1866, p. 315 ; C.R., p. 148. Near Sydney.

29 OPHIONEREIS SCHAYERI, Mull. & Troch., Wiegman's Archiv., Vol. x., 1884, p. 182. Very common under stones, Watson's Bay.

30 OPHIOCOMA SP. This is a very beautiful species, the general colour being reddish-brown speckled with grey, the spines are ringed with alternating bands of white and brown. Under stones Watson's Bay ; Taylor Bay, (W.)

31 O. SP. A small black species. Dredged in P.J., (Dr. Ramsay).

32 OPHIACANTHA STIMULEA, Lyman, C.R., p. 188, pl. xiii., f. 4-6. Station 164, off P.J.

33 OPHIOTHRIX CAESPITOSA, Lyman, C.R., p. 218, pl. xxvi., f. 12-14. P.J., 2 – 10 fms., (Dr. E. P. Ramsay).

34 O. ARISTULATA, Lyman, C.R., p. 223, pl. xxi., f. 9-12. P.J.

35 O. SPONGICULA, Stimpson, Paoc. Acad. N. Sci., 1855, Vol. VII., p. 385. P.J., (Stimpson.)

36 O. FUMARIA, Mull. & Troch,, Syst. Ast., p. 113, 1842 ; Lyman, Bull. Mus. Com. Zool., Vol. III., pt. x., p. 223, pl. iv., f. 33-36. Under stones, Watson's Bay ; common in deep water, (W.)

37 O. CILIARIS, M. & T., Syst. Ast., p. 114 ; Lyman, Bull. Mus. Com. Zool., Vol. III , pt. x., p. 233, pl. iv., f. 29-3. P.J.

38 OPHIOMYXA AUSTRALIS, Lutken, Addit. ad Hist., pt. iii., p. 99, 1869 ; C.R., p. 246. Under stones, Watson's Bay, (W.)

Family ASTROPHYTIDÆ.

39 GORGONOCEPHALUS AUSTRALIS, Verrill, Contribution to Nat. Hist. of Kergulen Island, by J. H. Kidder, Vol. II., p. 74, 1876; C.R., p. 265. Dredged, P.J., (Dr. E. P. Ramsay.)
40 G. SP. Dredged, P.J., (Dr. E. P. Ramsay.)

Class ASTEROIDEA.

Sub-Class EUASTEROIDEA.

Order PHANEROZONIA.

Family ARCHASTERIDÆ.

41 PONTASTER SUBTUBERCULATUS, Sladen; Challenger Report, Asteroidea, Vol. XXX., 1889, p. 58, pl. v., f. 3-4; pl. xiii., f. 7-8. Station 164, off P.J. 950 fms.
42 PLUTONASTER AMBIGUUS, Sladen, l.c., p. 95, pl. ii., f. 5-6; pl. xiii., f. 11, 12. Station 164, off P.J., 950 fms.

Family ASTROPECTINIDÆ.

43 ASTROPECTEN POLYACANTHUS, M. & T., Syst. Aster. p. 60, pl. v., f. 3; Perr., l.c., Vol. v., p. 275; C.R., Vol. XXX., p. 201. Usually found in deep water, very common everywhere in Port Jackson.
44 A. TRISERIATUS, M. & T., Arch. f. Nat., Bd. I., 1843, p. 117. This is also confined to deep water, Botany Bay, and P.J.
45 A. PECTINATA, Sladen, Jour. of Linn. Soc., London, 1883, Vol. XVII., p. 251; C.R., Vol. XXX,, p. 202, pl. XXXiii., f. 3-4; pl. XXXVii., f. 4-6. Off P.J.
46 PSILASTER ACUMINATUS, Sladen, C.R., Vol. XXX., p. 225, pl. xl., f. 1-2; pl. xlii., f. 7-8. Station 164 off P.J., 950 fms.
47 LUIDIA MACULATA? Mull. & Trochel, System. Aster., p. 77. Coast of New South Wales. There is one specimen in the Australian Museum, the arms are 7 in number and the spread is 18 inches. There are also several large specimens in the Macleay Museum from Jervis Bay.

Family PENTAGONASTERIDÆ.

48 PENTAGONASTER ASTROLOGORUM, M. & T., Syst. Aster. 1842 p. 54; Gray, Synopsis Starfish, Brit. Mus., 1866, p. 11; C. R., Vol. XXX., p. 269. Sydney Harbour, ("Challenger.")
49 P. NOBILIS, Mull. & Trosch., Arch. f. Natur., 1843, Band I., p. 116. Manly Beach.
50 ASTROGONIUM DUBENI, Gray, P.Z.S., 1847, p. 91; Synopsis, 1866, p. 11, pl. iii., f. 2. Under stones, Taylor Bay; Watson's Bay; (W.)

51 A. PULCHELLUM, Gray, Ann. & Mag. N.H., 1840, p. 280; Synopsis, 1866, p. 11, pl. viii., f. 3. New South Wales, ("Challenger.")

52 NECTRIA OCELLIFERA, Lamarck, Anim. sans Vert., 1816, Vol. II., p. 553; Gray, Synopsis, p. 15; Perrier, Revision Stellarides Arch. Zool. Exp., Vol. v., 1876, p. 3; C.R., Vol. XXX., p. 319. Watson's Bay, (Master P. Ramsay.)

53 STELLASTER GRANULOSUS, Perrier, Rev. Stellarides, Arch. Zool. Exp., Vol. v., p. 43. New South Wales, ("Challenger.")

Family ANTHENEIDÆ.

54 ANTHENEA ACUTA, Perrier, Ann. Sci. Naturelles, 1869, 5 Ser., Vol. XII., p. 280; C.R., Vol. XXX., p. 340. Port Jackson, 6 – 15 fms. ("Challenger.")

55 A. FLAVESCENS, Perrier, Arch. Zool. Exp. Revis. Stell., Vol. V., p. 52. Port Jackson, 0 – 5 fms., ("Alert" Report, p. 127). There is some confusion in reference to our single species of *Anthenea*. In the first place Prof. F. Jeffrey Bell (P.L.S., N.S.W., Vol. IX., p. 498) allows it to pass as *A. tuberculosa*, Gray, which however is a northern form not found on our coasts; the same authority in the "Alert" Report sets it down as *A. flavescens*. Whilst Percy Sladen in the Challenger Report refers it to *A. acuta*, and says that the exact habitat of *A. flavescens* is not known.

Family GYMNASTERIDÆ.

56 ASTEROPSIS VERNICINA, Lamarck; Perr., l.c., Vol. v., p. 98; Gray, Synopsis, p. 16, pl. vi., f. 1. *(Petricia punctata.)* Common under stones Chowder Bay; Watson's Bay, (W.)

Family ASTERINIDÆ.

57 PATIRIA CRASSA, Gray, Ann. & Mag. N.H., 1840; Perrier, l.c., Vol. v., p. 246. Dredged at the mouth of Lane Cove River, (Dr. E. P. Ramsay.)

58 PALMIPES? SP. Under stones, Watson's Bay, (W.)

59 ASTERINA CALCAR, Gray, Ann. & Mag. N.H., 1840; Perr., Vol. v., p. 216. Under stones, very common, Middle Harbour; Coogee Bay, (W.)

60 A. GUNNII, Gray, Ann. & Mag. N.H., 1840, p. 289; Perrier, Vol. v., p. 218. Under stones, Watson's Bay; Chowder Bay; and many other places; not so frequent as the preceding species, (W.)

61 A. EXIGUA, Lam., An. S. Vert., t. iii., p. 241; Encycl. Methodique, pl. c., f. 3; Perr., l.c., Vol. v., p. 222. This species is found between high and low water mark in the harbour and all the outer coast, it is the most frequent of

all our Starfishes. The ova of this species are deposited on stones in shallow rocky pools, and are to be found from June to December. They are particularly well adapted for study, inasmuch as after the young leave the egg-case they do not swim away but remain round about the empty egg-cases and never leave until they assume the true star-fish form. The larvæ are remarkably hardy and may be kept in confinement without change of water until they have passed through the larval stages. (W.) *A. regularis* Verrill, is not found in Port Jackson; the "good series" mentioned in the "Alert" Report are very probably *A. exigua*.

62 A. PENICILLATA, M. & T., System Aster., 1842, p. 42, No. 9. Rare, Watson's Bay; Rose Bay, (W.)

63 A. SP. Allied to the last but distinct from it. Rare, Rose Bay, (W.)

64 NEPANTHIA BELCHERI, Perrier, l.c., Vol. v., p. 240; "Alert," Report, p. 131. P.J.

Order CRYPTOZONIA.

Family STICHASTERIIDÆ.

65 STICHASTER POLYPLAX, M. & T., Arch. f. Natur., 1843; Sladen, C.R., Vol. XXX., p. 792. Under stones, Watson's Bay; Chowder Bay; Cabbage Tree Bay. Specimens in the harbour are as a rule very small, those from the outside are often much larger. (W.)

Family PTERASTERIIDÆ.

66 RETASTER INSIGNIS, Sladen, Jour. Linn. Soc., London, Vol. XVI., p. 200; C.R., Vol. XXX., p. 482, pl. lxxvi., f. 3-4; pl. lxxvii., f. 11, 12. Port Jackson? (fide Bell.)

Family ECHINASTERIDÆ.

67 PLECTASTER DECANUS, M. & T., Arch. f. Nat., 1843, Band I., p. 114, figured in the "Sydney Mail," Nov. 3rd, 1888, p. 936; C.R., Vol. XXX., p. 812. Dredged off Dobroyd Point; off George's Head, (Dr. E. P. Ramsay). Under stones, Shark Island, (Mr. Hunt); Vaucluse Point (Mr. Lea).

Family ASTERIIDÆ.

68 ASTERIAS CALAMARIA, Gray, Ann. & May. N.H., 1840, p. 179; Synopsis, Starfish, Brit. Mus., 1866, p. 1; Perrier, Arch. Zool. Exp. Rev. Stell., Vol. IV., p. 307; Loriol, Mem. de la Soc. Phy. et Hist. Nat., Geneve, 1884-5, Vol. XXIX., No. 4, pl. vii., f. 12. Very common in deep water and also under stones at low tide, Farm Cove; Watson's Bay,(W.)

69 UNIOPHRA GLOBIFERA, Gray, Ann. & Mag. N.H., 1840, p. 288; Perrier, l.c., Vol. IV., p. 342. Frequent under stones, Chowder Bay ; Rose Bay ; Taylor Bay, (W.)

Class ECHINOIDEA.

Order ENDCYCLICA.

Sub-Order DESMOSTICHA.

Family CIDARIDÆ.

70 PHYLLACANTHUS AUSTRALIS, Ramsay, Catalogue of Echinodermata in the Australian Museum, p. 3 and 44, pl. i., i.*a*. South Reef 6 fms., P.J. (Dr. E. P. Ramsay).

71 P. PARVISPINUS, Ten.-Woods, P.L.S., N.S.W., Vol. IV., p. 286, pl. xiv., f. A-B. Frequent at Taylor Bay ; Watson's Bay, P.J., (W.)

72 GONIOCIDARIS TUBARIA, Lam., Anim. sans. Vert., p. 57, 1816 ; C.R., Vol. III., p. 49, pl. xl., f. 1-25 ; Agassiz, Revision Echinoidea, part iii., p. 397. 5-8 fms. South Reef and off P.J., (Dr. Ramsay).

73 CENTROSPHEPHANUS RODGERSII, A. Agass., P. Acad. Sci. Phil. 1863, p. 354 ; Rev. Echin., pt. i., p. 98 ; pt. iii., p. 412, pl. iii. *b*, f. 1-3 ; pl. xxiv., f. 37. Common under stones, Watson's Bay, P.J.

74 STRONGYLOCENTROTUS TUBERCULOSUS, Lam., Anim. Sans. Vert. Agass.. Rev. Echin. p. iii., p. 449, pl. v.*b*, f. 4-5 ; pl. xxxvi., f. 4. Rare, Shark Point, P.J., (Mr. Hunt).

75 S. ERYTHROGRAMMUS, Valenc., Voy. of Venus, Zoophytes, pl. vii., f. 1, 1846 ; Agass. Rev. Echin., pt. i., p. 163, pt. iii., p. 441, pl. v.*a*, f. 2-4. Very common under stones, Taylor Bay, and many other places, P.J.

Family ECHINIDÆ.

76 SALMACIS DUSSUMERI, Agass., Ann. Sc. Nat., Vol. vi., Ser. iii., p. 359, 1846 ; A. Agass., Rev. Echin., pt. iii., p. 473, pl. viii. *b*, f. 7-8. P.J.

77 S. ALEXANDRI, Bell, Proc. Zool. Soc., 1880, p. 431, pl. xli., f. 1-7. Frequent in deep water, P.J.

78 S. RARISPINA, Agass. & Desor., Ann. Sc. Nat. Ser. 3, Vol. VI., p. 359 , A. Agass., Rev. Ech., pt. iii., p. 475 ; pl. viii.*b*, f. 4-6. P.J., (Dr. Ramsay.)

79 S. SULCATA, Agass. & Desor., Ann. Sc. Nat., (3) Vol. VI., p. 359 ; A. Agass., Rev. Ech., p. 476, pl. viii.*b*, f. 3, pl. vi., f. 6. P.J., (Dr. Ramsay.)

80 S. WOODSII, Ramsay, Cat. Echinoidea, p. 18 and 47, pl. ii., f. 1, 2, 3. P.J., (Dr. Ramsay.)

81 S. ? sp. Under stones, George's Head, P.J., (Ed. McIntosh).
82 Amblypneustes ovum, Agass. & Desor., Ann. Sc. Nat. (3) Vol. vi., p. 362 ; A. Agass. Rev. Echin., pt. iii., p. 480, pl. viii.*c*, f. 3-4. Frequent in deep water ; often found under stones at low tide, and washed up on sandy beaches Botany ; Coogee ; Chowder ; Watson's Bay, (W.)
83 A. griseus, Blainville, A. Agass., Rev. Echin., pt. iii., p. 480, pl. xxxviii., f. 20-21. Botany.
84 A. formosus, Valenc., Voy. of "Venus," pl. ii., f. 2 ; A. Agas. pt. iii., p. 479, pl. viii.*c*, f. 1-2. Queen's Beach, Botany.
85 Holopneustes purpurascens, Lutken; A. Agass., Rev. Echin. pt. iii., p. 485, pl. vi., f. 25, 25*a*, pl. viii.*c*, f. 5-6. P.J. (Dr. Ramsay.)
86 Tripneustes angulosus, Leske; Bell, Proc. Zool. Soc., 1879, p. 657, 661 ; Agass., Rev. Echin., pt. i., p. 135, pt. iii., p. 501, pl. iv.*b*, f. 5-6 ; pl. xxv., f. 6-7. Very rare, Shark Point, P.J., (Mr. Hunt).
87 Evechinus Australiæ, Ten.-Woods, Proc. Linn. Soc., N.S.W., Vol. ii., p. 167. P.J.

Order II. EXOCYLICA.

Sub-Order CLYPEASTRIDA.

Family EUCLYPEASTRIDÆ.

88 Fibularia australis, Desml., Tabl. Syn., 240 ; Agass, Rev. Echin., pt. iii., p. 506, pl. xiiii., f. 9-10 ; C.R., Vol. iii., p. 119. P.J.
89 F. ovulum, Lam., Anim. Sans Vert., p. 17 ; Agass.. Rev. Echin., iii., p. 507, pl. xiii.*e*, f. 1-3. P.J.
90 Echinanthus testudinarius, Gray, P. Zool. Soc., London, p. 35, 1851. P.J.
91 Laganum Peronii, Agass., Int. Mon. Scut., 1841, p. 123, pl. xxii., f. 21-24 ; Agass., Rev. Echin., iii., p. 522, pl. xiii.*e*, f. 4-5.

Sub-Order PETALOSTICHA.

Family SPATANGIDÆ.

92 Maretia planulata, Lam.; Agass., Rev. Echin. iii., p. 570, pl. xix.*b*, f. 7-12 ; pl. xxv., f. 33-34 ; pl. xxvi., f. 21-22 ; pl. xxxvii., f. 13-14 ; C.R., Vol. iii., p. 173, pl. 38, f. 23 ; pl. xl., f. 54, 55 ; pl. xli., 17-20. P.J.
93 Eupatagus Valenciennesii, Agass. & Desor., Ann. des Sci. Nat., Ser. 3, 1847, Vol. viii., p. 9, pl. xvi., (Vol. vi.) f. 13. P.J., (Dr. Ramsay.)
94 Lovenia elongata, Gray, Eyre, Voy. Vol. i. ; C.R., Vol. iii., p. 175, pl. xxxix., f. 13 ; pl. xl., f. 45, 46. P.J.

95 ECHINOCARDIUM AUSTRALE, Gray, Ann. & Mag. N. Hist., Ser. 2, 1851, p. 131. P.J.
96 HEMIASTER APICATUS, Ten.-Woods, P.L.S., N.S.W., Vol. IV., p. 283, pl. xiii., f. 1-5. P.J.
97 BRISSUS CARINATUS, Lam., Agass., Rev. Echin., iii., p. 596, pl. xxi.*a*, f. 1 3, pl. XXV., f. 36-37, pl. xxvi., f. 38. P.J.
98 SCHIZASTER VENTRICOSA, Gray, Ann. & Mag. N.H., (2) Vol. VII., p. 133 ; Agass., Rev. Echin., iii., p. 614. P.J.

Class IV. HOLOTHURIOIDEA.

Order APODA.

Family SYNAPTIDÆ.

99 SYNAPTA DOLABRIFERA, Stimpson, Proc. Acad. Nat. Sci. Phil. Vol. VII., 1855, p 386 ; C.R., Vol. XIV., p. 27. Watson's Bay ; Neutral Bay, (W.)
100 CHIRODOTA AUSTRALIANA, Stimpson, l.c., p. 386 ; C.R., Vol. IV., p. 16 and 33. This and the preceding species are usually found together under stones in muddy places, Watson's Bay (W.)
101 C. JAPONICA, Von Marenzeller ; C.R., p. 17 and 32. Off Green Point, P.J. (W.)

Order PEDATA.

Family DENDROCHIROTÆ.

102 CUCUMARIA MACULATA, Semper, Holoth., p. 47, pl. xiii., f. 8, pl. xiv., f. 5 ; C.R., p. 100. P.J.
103 C. MIRABILIS, Theel. ; C.R., Vol. XIV., p. 61, pl. ix., f. 5. P.J.
104 COLOCHIRUS SPINOSUS, Q. & G., Astrolabe, Vol. IV., p. 118, pl. vii., f. 1-10 ; C.R., Vol. XIV., p. 120, pl. xiv., f. 3-4. = *Stereoderma validum*, Bell, Zool. "Alert," p. 150, pl. ix., f. E, *a-f*. Very Common in deep water, P.J.
105 C. AUSTRALIS, Ludwig ; C.R., p. 83 and 122, pl. xiv., f. 5-6 ; pl. vi., f. 6. Under stones, Watson's Bay, P.J. (W.)
106 C. TUBERCULOSUS, Q. & G., Astrolabe, Vol. IV., p. 131 ; C.R., p. 123. P.J.

Sub-Family GASTROPODA.

107 PSOLUS SP. Off Ball's Head, P.J. (Dr. Ramsay.)

Sub-Family SPORADIPODA.

108 THYONE BUCCALIS, Stimpson, P. Acad. Nat. Sci. Phil., 1855, p. 385 ; C.R., p. 136. P.J.
109 T. OKENI. Bell, Zool. "Alert," p. 149, pl. ix., f. D ; C.R., p. 139. P.J.

110 PHYLLOPHORUS PERSPICILLUM, Selenka, Zeits. fur Zoologie, Bd. XVII., p. 352, pl. XX., f. 110-111; C.R., p. 150. In the Challenger Report there is a query as to whether this species belongs to the genus *Orcula* or to *Phyllophorus*. I have seen the inner alternating circle of tentacles so that it belongs to the latter genus. Off Shark Point, P.J.

111 P. IMCOMPERTUS, Theel., C.R., p. 97, pl. v., f. 3; pl. viii., f. 5. P.J.

Family ASPIDOCHIROTÆ.

112 HOLOTHURIA SP. Vaucluse Point, (Mr. Rowsell).

Order ELASIPODA.

Family DEIMATIDÆ.

113 LAETOGONE VIOLACEA, Theel., C.R., Vol. IV., p. 78, pl. 13. Station 164, off P.J. ("Challenger.")

114 PANNYCHIA MOSELEYI, Theel., C.R., Vol. IV., p. 88, pl. 17. Station 164 off P.J., ("Challenger.")

Sub-Kingdom VERMES.

Class I. PLATYHELMINTHES.

Order I. TURBELLARIA.

DENDROCŒLA.

Family PLANARIIDÆ.

1 POLYCELIS AUSTRALIS, Schmarda, Neue, Wirbellose Thiere, 1859, Vol. I., p. 21, pl. iv., f 45. Illawarra.

Family EURYLEPTIDÆ.

2 THYSANOZOON CRUCIATUM, Schmarda, l.c., p. 30, pl. vi., f. 68. P.J.

3 T. AUSTRALE, Stimpson, Proc. Acad. Nat. Sci., Phil., 1855, Vol. VII., p. 289. Under stones, Taylor Bay; Watson's Bay, (W.)

Family ? ?

4 DIONCUS BADIUS, Stimpson, l.c., p. 389. P.J.

5 D. OBLONGUS, Stimpson, l.c., p. 389. P.J.

RHYNCHOCŒLA.

Family CARINELLIDÆ.

6 POLIA RHOMBOIDALIS, Stimpson, l.c., p. 390. P.J.

7 Borlasia viridis, Quoy & Gaim., Voy. Astrolabe, Vol. iv., p. 288, pl. xxiv., f. 9-11. P.J.
8 Meckelia australis, Stimpson, P. Acad. N. Sci. Phil., 1857, p. 161. P.J.
9 M. sp. A very pretty species marked with red and white lines. Taylor Bay.

Class II. NEMATELMINTHES.

Order NEMATODA.

I am not aware of any described species of this order from Port Jackson, but Dr. N. Cobb, informs me that free swimming Nematodes are found, and no doubt there are many species to be worked out.

Chaetognatha.

10 Sagitta sp. In rock pools Neutral Bay, (Mr. Hewett). Common on the surface near the Heads, P.J., (W.)

Class III. ANNELIDA.

Sub-Class Chaetopoda.

Order I. POLYCHAETA.

Sub-Order ERRANTIA.

Family AMPHINOMIDÆ.

11 Amphinome sp. P.J.
12 Hipponœ Gaudichaudii, Audouin & Edwards; McIntosh, C.R., Vol. xii., p. 30, pl. i., f. 5, pl. iv., f. 3, pl. iii.*a*, f. 13-17. P.J.

Family APHRODITIDÆ.

13 Aphrodita australis, Baird, Jour. Linn. Soc., London, Vol. viii., p. 176; McIntosh, C.R., p. 34, pl. vii., f. 6-7, pl. vi.*a*, f. 4-7. P.J.

Family POLYNOIDÆ.

14 Lepidonotus striatus, Kingberg, Ofversigt af K. Vetensk. Akad. Forhandlingar, 1855, p. 381. P.J.
15 L. Jacksoni, Kinberg, l.c., d. 383. P.J.
16 L. dictyolepis, Haswell, P.L.S., N.S.W., Vol. vii., p. 287, pl. ix., f. 7-8. Dredged in shallow water, Watson's Bay, (Dr. Haswell).

17 Polynoe australis, Schmarda, Neue. Wirb. Thiere, pt. ii., p. 154, Woodcut *a*, *b*, *b'*. P.J.

18 Thormora argus, Val.; Quartrefages, Hist. Nat. des Anneles Vol. i., p. 247. P.J.

19 Antinoe Wahlii, Kinberg, l.c., p. 19, pl. vi., f. 28, pl. x., f. 55. P.J.

20 A. praeclera, Hasw., Proc. Linn. Soc., N.S.W., Vol. vii., p. 290, pl. ix., f. 10-12. Among Mussels at low tide, (Dr. Haswell).

21 A. ascidiicola, Hasw., l.c., p. 291, pl. ix., f. 16. In an Ascidian obtained in the trawl at the mouth of the Parramatta River.

22 A. pachylepis, Hasw., l.c., p. 292, pl. ix., f. 17. Under stones near high water mark, P.J., (Dr. Haswell).

Family SIGALIONIDÆ.

23 Thalenessa fimbriata. McIntosh, C.R., Vol. xii., p. 144, pl. xix., f. 10; pl. xxiii., f. 4; pl. xxiv., f. 5; pl. xxv., 1-2; pl. xiii.*a*, f. 13. Off P.J.

Family NEPHTHYDIDÆ.

24 Nephthys longipes, Stimpson, P. Acad. Nat. Sci., Phil., 1854-55, Vol. vii., p. 392. Botany Bay.

Family PHYLLODOCIDÆ.

25 Phyllodce duplex, McIntosh, C.R., Vol. xii., p. 167, pl. xxvii., f. 8; pl. xxxii., f. 9; pl. xv.*a*, f. 1. Station 163, (Challenger).

26 P. Novæ-Hollandiæ, Kinberg, Ofversigt af K. Vetensk-Akad. Forhandlungar, 1865, p. 241. P.J. 12 fms.

27 Eulalia quadrocula, Hasw., P.L.S., N.S.W., Vol. x., p. 748, pl. liii., f. 6-9. Dredged in P.J., (Dr. Haswell).

Family HESIONIDÆ.

28 Cirrosyllis didymœcera, Schmarda, l.c., pt. ii., p. 77, pl. xxviii., f. 224. P.J.

29 Psamathe? crinita, Haswell, l.c., Vol. x., p. 749, pl. liii., f. 10-12. Dredged in P.J., (Dr. Haswell).

Family SYLLIDÆ.

30 Syllis corruscans, Hasw., l.c., Vol. x., p. 734, pl. l., f. 1-3, pl. lv., f. 5. Littoral, extending to 15 fms., P.J., (Dr. Haswell.)

31 S. Kinbergiana, Hasw., l.c., Vol. x., p. 739, pl. li., f. 1-3. Among Mussels and Ascidians, P.J., (Dr. Haswell).

32 S. taeniaeformis, Hasw., l.c., Vol. x., p. 741, pl. l., f. 4-5. Obtained in the trawl in a few fathoms, P.J., (Dr. Haswell).

33 S. SCHMARDIANA, Hasw., l.c., Vol. x., p. 742, pl. li., f. 4-8. P.J.
34 S. NIGROPUNCTATA, Hasw., l.c., Vol. x., p. 743, pl. lii, f. 1-3. Under stones, Neutral Bay, (Dr. Haswell).
35 THOE FUSIFORMIS, Kinberg, l.c., 1865, p. 249. P.J.
36 EURYMEDUSA PICTA, Kinberg, l.c., 1865, p. 249. P.J.
37 GNATHOSYLLIS ZONATA, Hasw., l.c., Vol. x., p. 746, pl. lii., f. 4-6., P.J.?

Family NEREIDÆ.

38 NEREILEPUS AMBLYODONTA, Schmarda, l.c., pt. ii., p. 106, pl. xxxi., f. 245. P.J.
39 NEREIS JACKSONI, Kinberg, l.c., 1865, p. 169. Under stones at low tide, P.J.
40 N. LANGUIDA, Kinberg, l.c., 1865, p. 169. 12 fms. P.J.
41 NEANTHES VAALII, Kinberg, l.c., 1865, p. 171. Under stones at low tide, P.J.
42 PERINEREIS NOVÆ-HOLLANDIÆ, Kinberg, l.c., 1865, p. 175. 8-10 fms., P.J.

Family ??

43 HALLA AUSTRALIS, Haswell, P.L.S., N.S.W., Vol. x., p. 752, pl. liv., f. 6-7 ; pl. lv., f. 1-4. P.J.

Family STAUROCEPHALIDÆ.

44 STAUROCEPHALUS AUSTRALIS, Hasw., l.c., Vol. x., p. 747, pl. liii., f. 1-5. Among Mussels at low tide, P.J., (Dr. Haswell).
45 S. LOVENII, Kinberg, l.c., 1864, p. 574. 12 fms., P.J.

Family LUMBRINEREIDÆ.

46 NOTOCIRRUS BREVICIRRUS, Schmarda, l.c., pt. ii., p. 117.
47 LUMBRICORNEREIS MIRABILIS, Kinberg, l.c., 1864, p. 568. Near P.J., 12 fms.
48 L. JACKSONI, Kinberg, l.c., 1864, p. 569. P.J.

Family EUNICIDÆ.

49 EUNICE APHRODITOIS, Pall.; McIntosh, C.R., Vol. XII., p. 282, pl. xxxviii., f. 16-17 ; pl. xx., f. 8-10.
50 DIOPATRA DENTATA, Kinberg, l.c., 1864, p. 560. 12 fms. P.J.
51 NAUPHANTA NOVÆ-HOLLANDIÆ, Kinberg, l.c., 1864, p. 564. P.J.
52 LYSIDICE BREVICORNIS, Kinberg, l.c., 1864, p. 566. P.J.
53 L. ROBUSTA, Stimpson, P. Acad. N. Sci., Phil., 1854-55, p. 392. P.J.

Family ARICIIDÆ.

54 LABOTUS NOVÆ-HOLLANDIÆ, Kinberg, l.c., 1865, p. 252. P.J. 12 fms.
55 SCOLOPLOS SP. Neutral Bay.
56 ARICIA SP. P.J.

Family OPHELIIDÆ.

57 POLYOPHTHALMUS SP. Off Green Point, P.J.

Family CHAETOPTERIDÆ.

58 CHAETOPTERUS LUTEUS, Stimpson, P. Acad. N. Sci., Phil., 1854-55, p. 391. P.J.
59 C. MACROPUS, Schmarda, l.c., pt. ii., p. 17, pl. xi., f. 167. P.J.

Family CIRRATULIDÆ.

60 CIRRATULUS AUSTRALIS, Val., Quartrefages Hist. Nat. Ann., Vol. I., p. 457. P.J.? Jervis Bay.
61 TIMARETE FECUNDA, Kinberg, l.c., 1865, p. 254. Surface, P.J.
62 TRATISIA LITHOPHILA, Kinberg, l.c., 1865, p. 256. P.J., 12 to 20 fms.

Family MALDANIDÆ.

63 CLYMENE INTEGRINATUS, Hasw., P.L.S., N.S.W., Vol. VII., p. 634, pl. xii., f. 3-6. Among sand and shingle, P.J., (Dr. Haswell).

Family AMMOCHARIDÆ.

64 AMMOCHARES TENUIS, Hasw., l.c., Vol. VII., p. 633, pl. xii., f. 2. Under stones at low tide (Dr. Haswell).

Family PHERUSIDÆ.

65 SIPHONOSTOMA AFFINE, Haswell, l.c., Vol. x., p. 750, pl. liv., f. 1-5. Obtained in the trawl, P.J., (Dr. Haswell).

Family HERMELLIDÆ.

66 SABELLARIA GIRARDI, McIntosh, C.R., Vol. XII., p. 421, pl. xlvii., f. 7, pl. xxvii.*a*, f. 13-15. Off P.J.

Family AMPHICTENIDÆ.

67 PECTINARIA ANTIPODA, Schmarda, l.c., pt. ii., p. 46, pl. xxiv., f. 199, 199*a*. P.J.

Family TEREBELLIDÆ.

68 TEREBELLA GRUBEI, McIntosh, C.R., Vol. XII., p. 445, pl. xlix., f. 2; pl. xxvii.*a*, f. 20. Station 163.
69 T. MODESTA, Quatrefages, Hist. Nat. Annales, pt. ii., Vol. II., p. 365. P.J.? Jervis Bay.

70 T. TRIGONOSTOMUM, Schmarda, l.c., pt. ii., p. 44, pl, XXV., f. 203. New South Wales Coast.
71 T. (LANICE) FLABELLUM, Baird; McIntosh, C.R., Vol. XII., p. 446, pl. xlix., f. 3, pl. l., f. 1, pl. xxvii.*a*, f. 22. Off Green Point, P.J.
72 RHYTOCEPHALUS EBRANCHIATUS, Quatrefages, l.c., pt. ii., p. 392. Jervis Bay.

Family SABELLIDÆ.

73 SABELLA FUSCA, Grube; McIntosh, C.R., Vol. XII., p. 491, pl. lii., f. 3, pl. xxx.*a*, f. 4-6. Off P.J.
74 S. VELATA, Hasw., P.L.S., N.S.W., Vol. IX., p. 671, pl. xxxi., f. 8, pl. xxxiv., f. 1-4. Under stones P.J., (Dr. Haswell).
75 S. PUNCTULATA, Haswell, l.c., Vol. IX., p. 672. Near low water mark, P.J., (Dr. Haswell).
76 SPIROGRAPHIS AUSTRALIENSIS, Haswell, l.c., Vol. XI., p. 673. Watson's Bay, near low water mark, P.J., (Dr. Haswell).

Family SERPULIDÆ.

77 SALMACINA AUSTRALIS, Haswell, l.c., Vol. IX., p. 669, pl. xxxiii., f. 7-11. Under stones, P.J., (Dr. Haswell).
78 EUPOMATUS ELEGANS, Haswell, l.c., Vol. VII., p. 633, pl. xii., f. 1; Vol. IX., p. 660, pl. xxxi., f. 3-4; pl. xxxii., f. 11-12; pl. xxxiii., f. 1-6. Off Green Point, 6–10 fms., (Dr. Haswell).
79 SERPULA VASIFERA, Haswell, l.c., Vol. IX., p. 668, pl. xxxi., f. 6, pl. xxxii., f. 6-2. Under stones, Watson's Bay, (Dr. Haswell).
80 POMATOCERUS ELAPHUS, Haswell, l.c., Vol. IX., p. 663, pl. xxxi., f. 7, pl. xxxii., f. 9-10. P.J.
81 VERMILIA CAESPITOSA, Lam.; Haswell, l.c., Vol. IX., p. 665, pl. xxxi., f. 5, pl. xxxii., f. 1-2. Very common, on rocks and stones, P.J.
82 V. ROSEA, Haswell, l.c., Vol. IX., p. 667, pl. xxxii., f. 2-5. Under stones, Watson's Bay.

Sub-Class II. GEPHYREA.

A. CHAETIFERA.

83 THALASSEMA SP. Off Green Point, P.J.
84 BONELLIA SP. See P.L.S., N.S.W., Vol. X., p. 331. Under stones, Neutral Bay; Mossman's Bay, P.J.

B. ACHAETA.

85 PHASCOLOSOMA AUSTRALIS, Kefferstein, Beitrage zur Anatom. und Syst. Kenntniss der Sipunculiden, Gottengen Nachricten, 1865, p. 197. Sydney, (Dr. Schutte).

86 P. NODULIFERA, Stimpson, P. Acad. N. Sci., Phil., 1885, Vol. VII., p. 390. P.J.

87 PHYMOSOMA JAPONICA, Grube, 54th Jahresbericht der Schlesischen Geselleschaft fur vaterlandische Cultur, Breslau, 1877, p. 73 ; C.R., Vol. XIII., p. 21. Very common under stones , Neutral Bay ; Watson's Bay.

88 SIPUNCULUS SP. P.J.

Sub-Class III. HIRUDINEA.

Family RHYNCOBDELLIDÆ.

89 *BRANCHELLION SP. P.J.

90 EUBRANCHELLA SP. P.J.

91 PONTOBDELLA LEUCOTHELA, Schmarda, Neue Wirbellose Thiere p. 6, pl. xvi., f. 146. P.J.

Class IV. ROTIFERA.

92 SYNCHAETA SP. Among weeds, Callan Park Jetty, Parramatta River.

Sub-Kingdom ARTHROPODA.

Class I CRUSTACEA.

I. ENTROMOSTRACA.

Order I. PHYLLOPODA. ρ

PHYLLOCARIDEA.

1 PARANEBALIA LONGIPES, Willemoes Suhm, Trans. Linn. Soc., London, Vol. I., Ser. 2, p. 26, pl. vi. ; Sars, in C.R., Vol. IX., p. 10, pl. x., f. 1-11. Dredged in P.J., off Green Point, (Dr. Ramsay). Previously only known from Bermuda.

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* The following species have been described from South-West and West Australia, by Dr. Baird, P.Z.S., London, 1869, p. 311–313 :—

BRANCHELLION LINEARE, Baird ; on Mustelus, King George's Sound.

B. PUNCTATA, Baird ; on Myliobatus, King George's Sound.

EUBRANCHELLA BRANCHIATA, Menzies, Trans. Linn. Soc., Vol. I., p. 188, pl. xvii., f. 3 (1791). On a turtle, Shark's Bay.

PONTOBDELLA RAYNERI, Baird ; on Rhinobatus, Shark's Bay. It is probable the Port Jackson species may be identical with those enumerated above.

Order OSTRACODA.

Family CYPRIDÆ.

2 PHLYCTENOPHA ZEALANDICA, Brady; C.R., Vol. I., 1880, p. 33, pl. iii., f. 1 *a-m*. P.J.
3 PONTOCYPRIS SUBRENIFORMIS, Brady, C.R., p. 38, pl. xv., f. 6 *a-a*. P.J.
4 ARGILLAECIA BADIA, Brady, C.R., p. 40, pl. vi., f. 3 *a-a*. P.J.
5 MACROCYPRIS SETIGERA, Brady, C.R., p. 43, pl. i., f. 1 *a-a*. P.J.
6 BAIRDIA FUSCA, Brady, C.R., p. 49, pl. vii., f. 2 *a-d*; Trans. Z. Soc., 1865, Vol. v., p. 34, pl. lvii., f. 9 *a-d*. P.J.
7 B. MINIMA, Brady, C.R., p. 53, pl. vii., f. 6 *a-g*, f. *e* and *g*, from P.J.
8 B. VICTRIX, Brady, Les Fonds de la Mer., Vol. I., p. 162, pl. xvii., f. 17, 18; C.R., p. 56, pl. x., f. 5 *a-d*. P.J.

Family CYTHERIDÆ.

10 CYTHERE VELLICATA, Brady, C.R., p. 64, pl. xii., f. 2 *a-d*. P.J.
11 C. DEMISSA, Brady, Ann. & Mag. N. H., 1868, (4) Vol. II., p. 180, pl. xii., f. 12; C.R., p. 66, pl. xii., f. 7 *a-j*. P.J.
12 C. CUMULUS, Brady, C.R., p. 71, pl. xiii., f. 2 *a-d*. P.J.
13 C. CRISPATA, Brady, C.R., p. 72, pl. xiv., f. 8 *a-d*. P.J.
14 C. CANALICULATA, Reuss, Haidingers Abhand. 1850, Bd. III., p. 76, pl. ix., f. 12; C.R., p. 73, pl. xiv., f. 7 *a-d*. P.J.
15 C. KERGUELENENSIS, Brady, C.R., p. 78, pl. iv., f. 1 *a-f*. P.J.
16 C. GOUJONI, Brady, C.R., p. 96, pl. xxv., f. 7 *a-g*. P.J.
17 C. DICTYON, Brady, C.R., p. 99, pl. xxi.v, f. 1 *a-y*. Off P.J.
18 C. DASYDERMA, Brady, C.R., p. 105, pl. xvii., f. 4 *a-f*; pl. xviii. f. 4 *a-f*. P.J.
19 C. CLAVIGERA, Brady, C.R., p. 105, pl. xxiii., f. 7 *a-d*. P.J.
20 C. TRICRISTATA, Brady, C.R., p. 110, pl. xxiii., f. 6 *a-d*. P.J.
21 KRITHE PRODUCTA, Brady, C.R., p. 114, pl. xxvii., f. 1 *a-j*. Off P.J.
22 LOXOCONCHA AVELLANA, Brady, C.R., p. 117, pl. xxviii., f. 1 *a-f*. P.J.
23 L. AUSTRALIS, Brady, C.R., p. 119, pl. xxviii., f. 5 *a-f*; pl. xxix. f. 3 *a-d*. P.J.
24 XESTOLEBERIS GRANULOSA, Brady, C.R., p. 125, pl. xxx., f. 5 *a-d*. P.J.
25 X. CURTA, Brady, C.R., p. 126, pl. xxxi., f. 6 *a-d*. P.J.
26 CYTHERURA CURVISTRIATA, Brady, C.R., p. 131, pl. xxxii., f. f. 10 *a-d*. P.J.

Family CYTHERELLIDÆ.

28 CYTHERELLA PULCHRA, Brady, C.R., p. 174, pl. xliv., f. 3 *a-b*. P.J.

29 C. PUNCTATA, Brady, C.R., p. 174, pl. xxxiv., f. 6 *a-b* ; pl. xliv., f. *a-g*. P.J.

Order III. COPEPODA.

Family CALANIDÆ.

29 CALANUS GRACILIS, Dana, U.S. Expl., Crust., 1078, pl. xxiv., f. 10 ; Brady, C.R., Vol. VIII., p. 35, pl. v., f. 1-6 ; pl. xlvi. P.J.

30 EUCALANUS ATTENUATUS, Dana, l.c., pl. lxxv., f. 1 ; C.R., l.c., p. 38, pl. vi., f. 1-8 ; pl. ii., f. 8-10. Off P.J.

31 PLEUROMMA ABDOMINALE, Claus. ; Brady, l.c., p. 46, pl. xi., f. 1-13 ; pl. xii., f. 1-16 ; pl. xxxi.; f. 13-14. Off P.J.

32 LEUCKARTIA FLAVICORNIS, Claus. ; Brady, C.R., p. 50, pl. xv., f. 1-9 and 16. Off P.J.

33 UNDINA VULGARIS, Dana ; C.R., p. 53, pl. xv., f. 11-15 ; pl. xviii., f. 6. Off P.J.

34 U. DARWINI, Lubbock, Trans. Linn. Soc., London, Vol. XXIII., p. 179, pl. xxix., f. 4-5 ; C.R., p. 54, pl. xvi., f. 1-4, 6-14. Off P.J.

35 SCOLECITHRIX DANÆ, Lubbock, Trans. Ent. Soc., Vol. IV., 1856, p. 15, pl. ix., f. 6-9 ; C.R., p. 57, pl. xvii., f. 1-12. Off P.J.

36 EUCHÆTE PRESTANDREÆ, Philippi ; Brady, C.R., p. 60, pl. xviii., f. 7-15, pl. xix. Off P.J.

37 CANDACE PECTINATA, Brady, C.R., p. 67, pl. xxx., f. 1-13. Off P.J.

38 C. PACHYDACTYLA, Dana ; Brady, C.R., p. 68, pl. xxxi., f. 2-9. Off P.J.

39 ÆTIDIUS ARMATUS, Brady, C.R., p. 76, pl. x., f. 5-16. Off P.J.

40 TEMORA DUBIA, Lubbock, Tran. Ent. Soc., 1856 ; C.R., p. 79, pl. xxv., f. 1-17. Off P.J.

41 CENTROPAGUS FURCATUS, Dana; Brady, C.R., p. 83, pl. xxviii., f. 1-11. Off P.J.

42 PONTELLA ACUTA, Dana ; Brady, C.R , p. 89, pl. xxxvi., f. 1-12. Off P.J.

43 P. ACUTIFRONS, Dana ; Brady, C.R., p. 81, pl. xxxv., f. 1-13. Off P.J.

44 P. PLUMATA, Dana ; Brady, C.R., p. 92, pl. xxxvii., f. 1-11. Off P.J.

Family CYCLOPIDÆ.

45 OITHONA CHALLENGERII, Brady, C.R., p. 97, pl. xl., f. 1-10. Off P.J.

Family CORYCAEIDÆ.

46 CORYCAEUS VARIUS, Dana ; Brady, C.R., p. 111, pl. lii., f. 1-14. Off P.J.

47 ONCAEA OBTUSA, Dana ; Brady, C.R., p. 120, pl. li., f. 1-11. Off P.J.

Family SAPHIRINIDÆ.

48 SAPHIRINA SPLENDENS, Dana ; Brady, C.R., p. 127, pl. xlix., f. 11-13. Off P.J.

Order IV. CIRRIPEDIA.

Family I. BALANIDÆ.

Sub-Family BALANINÆ.

49 BALANUS TINTINNABULUM, Linn. ; Darwin, Monograph of the Cirripedia, (Ray Society) London, 1851-1854, Vol. II., p. 194, pl. i., figs. a, l ; pl. ii., fig. 1 a, o. Sydney.
50 B. TRIGONUS, Darwin, l.c., p. 223, pl. iii., figs. 7 a, 7 f ; Hoek., C.R., Vol. VIII., (1883) p. 149, pl. xii., f. 20. P.J.
51 B. VESTITUS, Darwin, l.c., p. 286, pl. vii., f. 3a-b. P.J.
52 B. IMPERATOR, Darwin, l.c., p. 288, pl. viii., f. 4a, 4c. P.J.
53 ACASTA SULCATA, Lamarck ; Darwin, l.c., p. 310, pl. ix., figs. 2a-2d. P.J.
54 A. GLANS, Lamarck ; Darwin, l.c., p. 314, pl. ix., f. 5a-5c. P.J.
55 TETRACLITA ROSEA, Darwin, l.c., 335, pl. x., f. 3a, 3d. P.J.
56 T. RADIATA, Blainville ; l.c., p. 343, pl. xi., f. 5 a-d. P.J.
57 T. POROSA, Gmelin ; Darwin, l.c., p. 329, pl. x., f. 1a-1m. P.J.
58 ELMINUS PLICATUS, Gray ; Darwin, l.c., p. 351, pl. xii., f. 2a-2f. P.J.
59 E. SIMPLEX, Darwin, l.c., p. 353, pl. xii., f. 3. P.J.
60 E. MODESTUS, Darwin, l.c., p. 350, pl. xii., f. 1a, 1e. P.J.
61 TUBICINELLA TRACHEALIS, Shaw ; Darwin, l.c., p. 431, pl. XVII., f. 3a, 3e. N.S.W.

Sub-Family II. CHTHAMALINÆ.

62 CHTHAMALUS ANTENNATUS, Darwin, l.c., p. 460, pl. xviii., f. 2. P.J.
63 CHAMAESIPHO COLUMNA, Spengler ; Darwin, l.c., p. 470, pl. xix., f. 3a, 3e. P.J.
64 PACHYLASMA AURANTIACUM, Darwin, l.c., p. 480, pl. xx., f. 1a, 1d. P.J.
65 CATOPHRAGMUS POLYMERUS, Darwin, l.c., p. 487, pl. xx., f. 4a, 4e. N.S.W.

Family II. LEPADIDÆ.

66 LEPAS HILLII, Leach ; Darwin, l.c., Vol. I., p. 77, pl. i., f. 2. P.J.
67 L. ANSERIFERA, Linn. ; Darwin, l.c., p. 81, pl. i., f. 4. P.J.

68 L. PECTINATA, Spengler ; Darwin, l.c., p. 85, pl. i., f. 3. Common on shells of *Spirula Peronii*, Bondi.
69 L. AUSTRALIS, Darwin, l.c., p. 89, pl. i., f. 5. P.J.?
70 PÆCILASMA FISSA, Darwin. On the feet of *Clibanarius strigimanus*, (an hermit crab). Off P.J.
71 P. GRACILE, Hoek., C.R., Vol. VIII., p. 46, pl. ii., f. 2-4. Off P.J.
72 DICHELASPIS ORTHOGONIA, Darwin, l.c., p. 130, pl. ii., f. 10. Off Ball's Head, on the stem of Virgularia. (Dr. Ramsay.)
73 PARADOLEPAS NEPTUNI, Macdonald, P.Z.S., 1869, p. 440, pl. 33-34. On the gills of various crabs, P.J.
74 ALEPAS PEDUNCULATA, Hoek., C.R., Vol. VIII., p. 57, p. iii., f. 10-11. Off P.J.
75 IBLA QUADRIVALVIS, Cuvier ; Darwin, l.c., p. 203, pl. iv., f. 9. This species possesses supplementary males ; it is very common under stones at Watson's Bay and many other places. (W.)
76 SCALPELLUM PERONII, Gray ; Darwin, l.c., p. 246, pl. vi., f. 6. Off Ball's Head, P.J. (W.)
77 LITHOTRYA CAUTA, Darwin, l.c., p. 356, pl. vii., f. 3. N.S.W.

II. MALACOSTRACA

Order I. ARTHROSTRACA.

Sub-Order I. Amphipoda.

Family ORCHESTIDÆ.

78 TALORCHESTIA QUADRIMANA, Dana, U.S. Expl. Exp., Crust. II. p. 8J9, pl. lix., f. 7 ; Cat. Crust., p. 216, no 394. Bondi.
79 ORCHESTIA MACLEYANA, Haswell, P L.S., N.S.W., Vol. IV., p. 250, pl. vii., f. 2 ; Cat. Crust. p. 220, no. 401. Sandy beaches, P.J.
80 ALLORCHESTIA HUMILIS, Dana, U.S. Expl. Exp., Crust. II., p. 890, pl. lix., f. 6; Cat. Crust., p 221, no. 403. P.J.
81 A. RUPICOLA, Haswell, l.c., Vol. IV., p. 250, pl. viii., f. 1 ; Cat. Crust., p. 222, no. 406. P.J.
82 A. NIGER, Haswell, l.c., p. 319 ; Cat. Crust., p. 224, 408. P.J.

Family GAMMARIDÆ.

83 MONTAGUA MIERSII, Haswell, l.c., p. 323, pl. xxiv., f. 4 ; Cat. Crust., p. 226, no. 410. P.J.
84 M. LONGICORNIS, Haswell, l.c., p. 323, pl. xxiv., f. 5 ; Cat. Crust., p. 226, no. 411. P.J.
85 AMARYLIS BREVICORNIS, Haswell, l.c., p. 254 ; Cat. Crust., p. 228, no. 414. P.J.
86 CYPROIDIA ORNATA, Haswell, l.c., p. 320, pl. xviii., f. 1 ; Cat. Crust., p. 230, no. 416. P.J.

87 C. LINEATA, Haswell, l.c., p. 321, p. xviii., f. 2 ; Cat. Crust., p. 230, no. 417. P.J.

88 LYSIANASSA NITENS, Haswell, l.c., p. 255, pl. viii., f. 5 ; Cat. Crust., p. 232, pl. iv., f. 1, no. 418. P.J.

89 L. AFFINIS, Haswell, l.c., p. 255 ; Cat. Crust., p. 232, pl. iv., f. 2, no. 419. P.J.

90 GLYCERINA TENUICORNIS, Haswell, l.c., p. 256, pl. viii., f. 6 ; Cat. Crust. pl. iv., f. 6, no. 422. P.J.

91 AMPELISCA AUSTRALIS, Haswell, l.c., p. 257, pl. viii., f. 3 ; Cat. Crust., p. 235, no. 423. P.J.

92 PHOXUS VILLOSUS, Haswell, l.c., p. 258, pl. ix., f. 2 ; Cat. Crust., p. 236, no. 424. P.J.

93 P. BATEI, Haswell, l.c., p. 259, pl. ix., f. 3 ; Cat. Crust., p. 237, no. 525. P.J.

94 ŒDICERUS FOSSOR, Stimp., P. Acad. N. Sci., Phil., 1855 ; Cat. Crust., p. 238, no. 426. Botany Bay.

95 Œ. LATRANS, Haswell, l.c., p. 324, pl. xix., f. 1 ; Cat. Crust., p. 239, no. 427. Bondi.

96 Œ. ARENICOLA, Haswell, l.c., p. 325, pl. xxiv., f. 3 ; Cat. Crust., p. 239, no. 428. P.J.

97 UROTHŒ PINGUIS, Haswell, l.c., p. 325, pl. xix., f. 2 ; Cat. Crust. p. 240, no. 429. Bondi.

98 IMPHIMEDIA AMBIGUA, Haswell, l.c., p. 327, pl. xxiv., f. 2 ; Cat. Crust. p. 241, no. 430. Dredged, P.J.

99 ATYLUS MONOCULOIDES, Haswell, l.c., p. 327, pl. xviii., f. 4 ; Cat. Crust., p. 243, no. 431. P.J.

100 A. LIPPUS, Haswell, l.c., p. 328, pl. xx., f. 1 ; Cat. Crust., p. 243, no. 432. P.J.

101 A. MICRODEUTEROPUS, Haswell, l.c., Vol. v., p. 102, pl. vi., f. 3 ; Cat. Crust., p. 244, no. 433.

102 A. MAGALOPHTHALMUS, Haswell, l.c., Vol. v., p. 102, pl. vi., f. 4 ; Cat. Crust., p. 244, no. 434. P.J.

103 A. AUSTRINUS, Spence Bate, Cat. Amphipoda, p. 137, pl. xxvi., f. 4 ; Cat. Crust., p. 245, no. 435. P.J.

104 PHERUSA AUSTRALIS, Haswell, l.c., p. 103, pl. vii., f. 1 ; Cat. Crust., p. 246, no. 437. Botany Bay.

105 EUSIRUS DUBIUS, Haswell, l.c., Vol. IV., p. 331, pl. xx., f. 3 ; var. l.c., Vol. x., p. 100 ; Cat. Crust., p. 247, no. 438. P.J.

106 LEUCOTHŒ COMMENSALIS, Haswell, l.c., Vol. IV., p. 261, pl. x., f. 3 ; Cat. Crust., p. 248,, no. 439 P.J.

107 L. NOVÆ-HOLLANDIÆ, Haswell, l.c., Vol. IV., p. 329, pl. xvii., f. 2 ; Cat. Crust., p. 250, no. 442. P.J.

108 HARMONIA CRASSIPES, Haswell, l.c., p. 330, pl. xix., f. 3 ; Cat. Crust., p. 251, 443. P.J.

109 MELITA AUSTRALIS, Haswell, l.c., p. 252, pl. ix., f. 6-7 ; Cat. Crust., p. 252, no. 444. P.J.

110 Mœra rubro-macullta, Stimpson, P. Acad. N. Cci., Phil., 1855; Cat. Crust., p. 254, no. 446; P.L.S., N.S.W., Vol. x., p. 105 P.J.

111 M. hamigera, Haswell, l.c., p. 333, pl. xxi., f. 1; Cat. Crust., p. 254, no. 447. P.J.

112 M. viridis, Haswell, l.c., p. 333, pl. xxi., f. 2; Cat. Crust., p. 255, no. 448. P.J.

113 M. dentifera, Haswell, l.c., p. 332, pl. xx., f. 4; Cat. Crust., p. 256, no. 549. P.J.

114 M. approximans, Haswell, l.c., p. 334, pl. xxi., f. 8; Cat. Crust., p. 257, no. 450. Clark Island, P.J.

115 M. crassipes, Haswell, l.c., Vol. v., p. 103, pl. vii., f. 2; Cat. Crust., p. 258, no. 452. P.J.

116 Megamœra Mastersii, Haswell, l.c., Vol. iv., p. 265, pl. xi., f. 1; Cat. Crust., p. 258, no. 453. P.J.

117 M. subcarinata, Haswell, l.c., p. 335, pl. xxi., f. 4; Cat. Crust., p. 260, no 455. P.J.

118 M. Bœckii, Haswell, l.c., p. 336, pl. xxi., f. 6; Cat. Crust., p. 21, f. 6. P.J.

119 Wyvillea longimanus, Haswell, l.c., p. 337, pl. xxii., f. 7; Cat. Crust., p. 261, no. 458. P.J.

120 Polycheria tenuipes, Haswell, l.c., p. 345, pl. xxii., f. 8; Cat. Crust., p. 262, no. 459. P.J.

121 P. brevicornis, Haswell, l.c., p. 346; Cat. Crust., p. 263, no. 460. P.J.

122 Microdeutopus Australis, Haswell, l.c., p. 271, pl. xi., f. 5; Cat. Crust., p. 263, no. 461. P.J.

123 M. Mortoni, Haswell, l.c., p. 339, pl. xxii., f. 4; Cat. Crust., p. 264, no. 462. P.J.

124 M. tenuipes, Haswell, l.c., p. 339, pl. xxii., f. 1; Cat. Crust., p. 264, no. 463. Clark Island, P.J.

125 M. chelieer, Haswell, l.c., p. 440, pl. xxii., f. 3; Cat. Crust. p. 265, no. 464. P.J.

Family CORYPHIIDÆ.

126 Amphithœ quadrimanus, Haswell, l.c., p. 337, pl. xxi., f. 7; Cat. Crust., p. 266, no. 465. Clark Island, P.J.

127 A. cinerea, Haswell, l.c., p. 269, pl. xi., f. 4; Cat. Crust. p. 267, no. 466. P.J.

128 A. grandimanus, Haswell, l.c., p. 270; Cat. Crust., p. 267, no. 467. P.J.

129 A. setosa, Haswell, l.c., p. 270; Cat. Crust., p. 268, no. 468. Rock-pools, Botany Bay.

130 Xenocheira fasciata, Haswell, l.c., p. 272, pl. xi., f. 6; Cat. Crust., p. 268, no. 469. P.J.

131 HAPLOCHEIRA TYPICA, Haswell, l.c., p. 273, pl. xi., f. 2 ; Cat. Crust., p. 269, no. 470. Under stones at low water-mark, P.J.
132 PODOCERUS AUSTRALIS, Haswell ; l.c., p. 348, pl. vxi., f. 8 ; Cat. Crust., p. 270, no. 471. P.J.
133 CYRTOPHIUM PARASITICUM, Haswell, l.c., p. 274, pl. xxii., f. 1 ; Cat. Crust., p. 271, no. 472. P.J.
134 C. DENTATUM, Haswell, l.c., p. 274, pl. xxii., f. 5 ; Cat. Crust., p. 272, no. 473. P.J.
135 C. MINUTUM, Haswell, l.c., p. 343, pl. xxii., f. 6 ; Cat. Crust., p. 273, no. 474. P.J.
136 C. HYSTRIX, Haswell, l.c., Vol. v., p. 104, pl. vii., f. 3 ; Cat. Crust., p. 273, no. 475. P.J.
137 COLOMASTIX BRAZIERI, Haswell, l.c., Vol. IV., p. 343, pl. xxii., f. 4 ; Cat. Crust.' p. 274, no. 476. 2-10 fms. PJ.
138 ICILIUS AUSTRALIS, Haswell, l.c., p. 274, pl. xii., f. 2 ; Cat. Crust., p. 275, pl. iv., no. 477. P.J.

Tribe LAEMIDIPODA.

Family CAPRELLIDÆ.

139 PROTO NOVÆ-HOLLANDIÆ, Haswell, l.c., Vol. IV., p. 275, pl. xii., f. 3 ; Cat. Crust., p. 310, no. 532. P.J.
140 PROTELLA AUSTRALIS, Haswell, l.c., Vol. IV., p. 276, pl. xii., f. 4 ; Cat. Crust., p. 311, no. 533. P.J.
141 P. ECHINATA, Haswell, l.c., Vol. IV., p. 346, pl. xxii., f. 2 ; Cat. Crust., p. 312, no. 535. P.J.
142 P. HASWELLIANA, Mayer, in Die Caprelliden ; Haswell, P.L.S., N.S.W.. Vol. IX., p. 998.
143 HIRCELLA CORNIGERA, Haswell, l.c., Vol. IV., p. 347, pl. xxiii. f. 5 ; Cat. Crust., p. 313, no. 536. Clark Island, P.J.
144 CAPRELLA ÆQUILIBRA, Say.; Haswell, l.c., Vol. IX., p. 999. Off Ball's Head, P.J.
145 C. INERMIS, Haswell, l.c., Vol. IV., p. 348, pl. xxiii., f. 3 ; Cat. Crust., 314, no. 537. P.J.
146 C. ATTENUATA, Dana, U.S. Expl. Exp., Crust., p. 817, pl. lv., f. 1 ; Haswell, l.c., Vol. IX., p. 1000. P.J.
147 C. TENUIS, Haswell, l.c., Vol. IV., p. 276, pl. xii., f. 5 ; Cat. Crust., p. 312, no. 534. P.J.
148 C. OBESA, Haswell, l.c., Vol. IV., p. 348, pl. xxiv., f. 1 ; Cat. Crust., p. 214, no. 538. On piles Circular Quay, P.J.

ADDENDA TO THE AMPHIPODA.

Family ?

149 PLATYISHNOPUS MIRABILIS, Stebbing, C.R., Vol. XXIX., 1889, p. 830, pl. lviii. 2 - 10 fms., P.J.

150 Ampelisca acinaceus, Stebbing, C.R., Vol. xxix., p. 1036, pl. ci., pl. cii. Station 163 B, off P.J., 35 fms.
151 Platophium inconspicuum, Stebbing, C.R., Vol. xxix., p. 1194, pl. cxxxi. P.J., 2-10 fms.
152 Ancholomera Blossevillii, M.-Ed.; Stebbing, C.R., Vol. xxix., p. 1433. Off P.J., surface.
153 Tetrathyrus Moncœuri, Stebbing, C.R., Vol. xxix., p. 1481, pl. 184. Station 164 A.

Sub-Order II. Isopoda.

Family IDOTEIDÆ.

154 Idotea stricta, Dana, U.S. Expl. Exp., Crust., Vol. ii., p. 704, pl. xliv., f. 7; Cat. Crust., p. 276. N.S.W.

Family ONISCIDÆ.

155 Philougria marina, Chilton, P.L.S., N.S.W., Vol. ix., p. 463, pl. xi., f. 1-6. In rock-pools, Coogee Bay, (Chilton).
156 Ligia Australiensis, Dana, U.S. Expl. Exp., Crust., Vol. ii., p. 740, pl. xlix., f. 3; Cat. Crust., p. 281. N.S.W.

Family CYMOTHOIDÆ.

157 Ceratothoa imbricata, Fabr.; Miers, Zool. "Alert," p. 300. P.J.
158 Condonophilus argus, Haswell, P.L.S,, N.S.W., Vol. v., p. 471, pl. xvi., f. 1; Cat. Crust., p. 283. P.J.
159 Ourozeuktes Oweni, M.-Ed., Crust., Vol. iii., p. 276, pl. xxxiii., f. 8; Cat. Crust., p. 283, no. 488. P.J.

Family ÆGIDÆ.

160 Æga cyclops, Haswell, l.c., Vol. v., p. 11; Cat. Crust., p. 285, no. 490. P.J.

Family SPHAEROMIDÆ.

161 Sphaeroma verrucauda, White; Dana, U.S. Expl. Exp., Crust. II., p. 779, pl. lii., f. 6; Cat. Crust., p. 288, no. 495. P.J.
162 S. anomola, Haswell, l.c., Vol. v., p. 473, pl. x.6, f. 4; Cat. Crust., p. 288, no. 496. P.J.
163 S. lævis, Haswell, l.c., p. 473, pl. xvi., f. 5; Cat. Crust., p. 288, no. 497. On the beach at Bondi.
164 S. aspera, Haswell, l.c., p. 472, pl. xvi., f. 3; Cat. Crust., p. 289, no. 498. P.J.
165 S. Quoyana, M.-Ed., Hist. Nat., Crust., Vol. iii., p. 206; Cat. Crust., p. 287. Sydney.

166 CYMODOCEA ACULEATA, Haswell, l.c., Vol. v., p. 474, pl. xvi., f. 6 ; Cat. Crust., p. 291, no. 502. P.J.
167 CILICŒA TENUICAUDATA, Haswell, l.c., Vol. v., p. 475, pl. xvii., f. 2 ; Cat. Crust., p. 295. P.J.
168 C. SPINULOSA, Haswell, l.c., Vol. vi., p. 184, pl. iii., f. 3 ; Cat. Crust., p. 297. P.J.
169 C. CRASSA, Haswell, l.c., Vol. vi., p. 186 ; Cat. Crust., p. 298. P.J.
170 C. LATREILLEI, Leach ; Miers, Zool. "Alert," p. 308 ; Cat. Crust., p. 290, no. 501. P.J.
171 HASWELLIA CARNEA, Haswell, l.c., Vol. v., p. 476, pl. xvii., f. 4 ; Cat. Crust., p. 302, no. 520. P.J.
172 CERATOCEPHALUS GRAYANUS, White ; Beddard, C.R., Vol. xvii., p. 148. Off P.J.
173 BREGMOCERELLA TRICORNIS, Haswell, l.c., Vol. ix., p. 1005, pl. liii., f. 1. Dredged at Port Jackson Heads.
174 AMPHOROIDEA AUSTRALIENSIS, Dana, U.S. Expl. Exp., Vol. ii., p. 785, pl. lii., f. 13. N.S.W.

Family ARCTURIDÆ.

175 ARCTURUS BREVICORNIS, Haswell, l.c., Vol. vi., p. 195, pl. iv., f. 5 ; Cat. Crust., 304. P.J.?

Family ANTHURIDÆ.

176 PARANTHURA AUSTRALIS, Haswell, l.c., p. 477, pl. xviii., f. 1 ; Cat. Crust., p. 304, no. 525. P.J.
177 P. CRASSICORNIS, Haswell, l.c., p. 478, pl. xviii., f. 5 ; Cat. Crust., p. 305, no. 525. P.J.
178 P. MIERSI, Haswell, l.c., Vol. ix., p. 1012, pl. liii., f. 2-5. P.J.
179 HALIOPHASMA PURPUREA, Haswell, l.c., p. 476, pl. xviii., f. 3; Cat. Crust., p. 305, no. 526. P.J.
180 H. MACULATA, Haswell, l.c., p. 477, pl. xviii., f. 2; Cat. Crust., p. 306, no. 527.
181 EISOTHISTOS VERMIFORMIS, Haswell, P.L.S., N.S.W., Vol. ix., p. 676, pls. xxxvi.-xxxvii. In the tubes of Vermilia, Watson's Bay, (Dr. Haswell.)

Family TANAIDÆ.

182 APSEUDES OBTUSIFRONS, Haswell, l.c., Vol. vi., p. 748, f. 1-8 ; Cat. Crust., addenda. Dredged in P.J.
183 TANAIS TENUICORNIS, Haswell, l.c., Vol. ix., p. 1006, pl. l., f. 1-8. P.J.
184 BATHYTANAIS BATHYBROTUS, Beddard, C.R., Vol. xvii., p. 133, pl. xvii., f. 9-14. 2 – 10 fms., P.J.
185 PARATANAIS LINEARIS, Haswell, l.c., p. 1008, pl. l., f. 9-16. P.J.

Family ANCEIDÆ.

186 ANCEUS FEROX, Haswell, l.c., Vol. IX., p. 1005, pl. lii., f. 1-5. P.J., (T. Hewitt).

Family ASELLIDÆ.

187 STENETRIUM ARMATUM, Haswell, l.c., Vol. v., p. 478 and Vol. IX., p. 1009, pl. li., f. 1-12; Cat. Crust., p. 308. P.J.
188 S. INFERME, Haswell, l.c., Vol. v., p. 479, pl. xix., f. 2; Cat. Crust., p. 309. P.J.

Family SEROLIDÆ.

189 SEROLIS BROMLEYANA, Willemoes Suhm, P.R. Soc., London, Vol. XXIV., p. 591, 1876; C.R., Vol. XI., p. 53, pl. iv. Station 164 C. Off P.J.
190 S. ELONGATA, F. E. Beddard, C.R., Vol. XI., p. 71, Off P.J.
191 S. PALLIDA, F. E. Beddard, C.R., Vol. XI., p. 74, pl. viii., f. 6-16. Station 163.

Order II. THORACOSTRACA.

Sub-Order I. Stomatopoda.

192 LYSIOSQUILLA BRAZIERI, Miers, Ann. & Mag. N.H., Vol. v., Ser. 5, p. 11, pl. i., f. 3-6; Cat. Crust., p. 206, no. 382. P.J.
193 SQUILLA MILES, Hess., Arch. f. Nat., XXXI., p. 169, pl. vii., f. 21; Cat. Crust., p. 207, no. 385. P.J.?
194 S. LÆVIS,? Hess., Arch. fur Nat., XXXI., p. 170, pl. vii., f. 22. P.J.

Sub-Order II. Schizopoda.

Family EUPHAUSIIDÆ.

195 EUPHAUSIA GRACILIS, Dana, U.S. Expl. Exp., Crustacea, p. 644, pl. xlii., f. 6 a-c; C.R., Vol. XIII., p. 89, pl. xv., f. 12-13. Off P.J. ("Challenger.")
196 E. LATIFRONS, G. O. Sars, C.R., Vol. XIII., p. 95, pl. xvi., f. 17-23. Off P.J. ("Challenger.")
197 NYCTIPHANES AUSTRALIS, G. O. Sars, C.R., Vol. XIII. p. 115, pl. XX.; pl. xxi., f. 1-7. Off P.J. ("Challenger.")
198 THYSANŒSSA GREGARIA, G. O. Sars, C.R., Vol. XIII., p. 120, pl. xxi., f. 8-17; pl. xxii. Off P.J. ("Challenger.")

Family MYSIDÆ.

199 SIRIELLA THOMPSONI, M.-Ed.; Sars, C.R., Vol. XIII., p. 205, pl. XXXVI., f. 1-24. Between Sydney and Wellington.

I. MACROURA.

THALASSINIDEA.

Sub-Order Decapoda.

Family GEBIIDÆ.

200 GEBIA HIRTIFRONS, White ; Miers, Zool. "Erebus & Terror," Crust., p. 4, pl. iii., f. 5. P.J., in the interior of sponges.
201 G. SP. P.J.
202 AXIUS SP. Under stones, Watson's Bay (W).

Family THALASSINIDÆ.

203 THALASSINA MAXIMA, Hess., Archiv. fur Nat., XXXI., p. 163, pl. vii., f. 18, 1865. Sydney ? (Hess.)

Family CALLIANASSIDÆ.

204 TRYPAEA AUSTRALIENSIS, Dana, U.S. Expl. Exp., Vol. I., p. 613, pl. xxxii., f. 4a. Illawarra.

ASTACIDEA.

Family SCYLLARIDÆ.

205 IBACUS PERONII, Leach, Zool. Miscel., Vol. XI., pl. cxix. ; Cat. Crust., p. 168, no. 316. P.J.
206 I. CILIATUS, Von Siebold, De Haan Fauna Jap., Crust., p. 153, pl. xxxvi.-xxxvii., f. 2. There are two examples of this species in the Australian Museum labelled P.J.

Family PALINURIDÆ.

207 PALINURUS HUGELII, Heller, Reise der Novara, Crust., p. 46, pl. viii.; Cat. Crust., p. 173, no. 323. Taylor Bay, P.J. (W.)
208 P. LELANDII, M.-Edwards, Hist. Nat. Crust., Vol. II., p. 293. P.J. ?

CARIDEA.

Family CRANGONIDÆ.

209 RHYNCHOCINETES RUGULOSUS, Stimpson, P. Acad., N. Sci., Phil., Vol. XII., sp. 440 ; Cat. Crust., p. 180, no. 337. This is a very handsome species ocellated and streaked with deep blue, under stones Watson's Bay, P.J. (W.)
210 GNATHOPHYLLUM FASCIOLATUM, Stimp., Proc. Acad. N. Sci., Phil. Vol. XII., p. 28, Cat. Crust., 181, no. 339. P.J.
211 RHYNCHOCYCLUS COMPRESSUS, Stimp., l.c., XII., p. 28 ; Cat. Crust., p. 182, no. 340. P.J.

Family ALPHEIDÆ.

212 VIRBIUS AUSTRALIENSIS, Stimp., l.c., XII., sp. 436; Cat. Crust. p. 186, no. 347. P.J.

213 ALPHEUS MINOR var. NEPTUNUS, Dana; Miers, Zool. "Alert," p. 288. Between Ball's Head and Goat Island, (J. Brazier) P.J.

214 A. EDWARDSII, Audouin; see Miers in "Alert" Report, p. 284. Common under stones, P.J. (W.)

215 A. SP. P.J.

216 A. SP. P.J.

217 A. SP. P.J.

218 BETAEUS AUSTRALIS, Stimp., P. Acad. N. Sci., Vol. XII., p. 28; Cat. Crust., p. 192, no. 359. P.J.

219 B. TRISPINOSA, Stimp., l.c., p. 28; Cat. Crust., p. 192, no. 359. P.J

220 B. SP. Botany Bay, (W.) P.J.

221 ALOPE PAPALIS, White; Miers, Zool. "Erebus & Terror," Crust., p. 4, pl. iv., f. 1; Cat. Crust. p. 193, no. 361. Common at Watson's Bay, under stones and in rock-pools.

Family PALAEMONIDÆ.

222 LEANDER INTERMEDIUS, Stimp., l.c., sp. 464; Cat. Crust., p. 195, no. 364. P.J.

223 L. SERENUS, Heller, R. d. Novara, Crust., p. 110, pl. x., f. 5; Cat. Crust., p. 195, no. 365. P.J.

224 PALAEMON AFFINIS, M.-Ed.; Bate, C.R., Vol. XXIV., p. 782, f. 5. Off P.J.

Family PANDALIDÆ.

225 PANDALUS LEPTORHYNCHUS, Stimp., P. Acad. N. Sci., Phil., Vol. XII., sp. 447; Cat. Crust., 197, no. 369. P.J.

226 PLESIONIKA SEMILÆVIS, Bate, C.R., Vol. XXIV., p. 644, pl. cxiii., f. 3. Off P.J.

Family PENAEIDÆ.

227 PENAEUS CANALICULATUS, Oliver; Hess, Arch. fur Natur., XXXI., p. 168, pl. vii., f. 19; Cat. Crust., p. 119, no. 370. P.J.

228 P. MONODON, Fabr., = *P. semisulcatus*, De Haan, Fauna Jap. Crust., p. 191, pl. xlvi., f. 1, = *P esculentus*, Haswell, Cat. Crust., p. 200, no. 374. This is the "Tiger Prawn" of the Sydney fishermen. Spence Bate in the Challenger Report, Vol. XXIV., p. 250, says that the females alone have a groove on the dorsal carina; in Dr. Haswell's specimen from Port Darwin, there is a well marked groove, the specimen is a male. P.J.

229 P. MACLEAYI, Haswell, P.L.S., N.S.W., Vol. IV., p. 40; Cat. Crust., 201, no. 175. P.J.

230 P. SP. This is probably an undescribed form. The carapace is hairy, sculptured, and each of the first three pairs of legs bears a spine near the base. This is by far the commonest species offered for sale, *P. caniculatus* and *P. Macleayi* are often seen intermixed with it, the last named being the rarest of the two. *P. monodon* appears to be fairly abundant at certain seasons, but it is seldom seen in fish shops. P.J.

231 P. GRACILIS, Dana, U.S. Expl. Exp., p. 606, pl. iv., f. 7 a-b. Off P.J. ("Challenger.")

232 SERGESTES ARMATUS, Kroyer; Bate, C.R., Vol. XXIV., p. 410, pl. lxxiii., f. 1. P.J

233 S. PARVIDENS, Bate, C.R., p. 409, pl. lxxiv., f. 3. Off P.J.

234 LUCIFER TYPUS, Thompson; Bate, C.R., p. 464, pl. lxxxiii. P.J.

235 SICYONIA OCELLATA, ? Stimpson; Cat. Crust., p. 205, no. 387. P.J.

II. BRACHYURA.

OXYRHYNCHA.

Family INACHIDÆ.

236 STENORHYNCHUS FISSIFRONS, Haswell, P.L.S., N.S.W., Vol. III., p. 409, Vol. IV., p. 432; Cat. Crust., p. 2. no. 2. P.J.

237 S. BREVIROSTRIS, Haswell, P.L.S., N.S.W., Vol. III., p. 408, Vol. IV., p. 432; Cat. Crust., p. 3, no. 3. P.J.

238 ACHAEUS LACERTOSUS, Stimpson, Proc. Acad. Nat. Science, Philadelphia, Vol. IX., p. 218, 1857; Cat. Crust., p. 3, no. 4. P.J.

239 A. AFFINIS, Miers, Zool. "Alert," p. 188. 5 – 7 fms., P.J.

240 A. TENUICOLLIS, Miers, C.R., Vol. XVII., p. pl. i., f. 2. Off P.J.

241 ONCINOPUS ARANEA, De Haan, Fauna Japonica, Crust., p. 100, pl. xxix., f. 2. P.J.

242 HALIMUS TUMIDUS, Dana, in Wilkes, U.S. Expl. Expedition Crust. I., p. 165; Cat. Crust., p. 6, no. 8. P.J.

243 H. SPINOSUS, Hess, Arch. für Natur., Bd. XXXI., 1865, p. 129, pl. vii., f. 1; Cat. Crust., p. 6, no. 9. P.J.

244 MICROHALIMUS DEFLEXIFRONS, Haswell, P.L.S., N.S.W., Vol. IV., p. 435, pl. XXV., f. 2; Cat. Crust., p. 7. no. 11. P.J.

245 LISPOGNATHUS THOMSONI, Norman in Wyville Thomson's Depths of the Sea, p. 174, f. 34; C.R., Vol. XVII., p. 28, pl. v., f. 2. 410 fms. off P.J.

246 HUENIA BIFURCATA, Streets, Proc. Acad. Nat. Sci., Phil., 1870, p. 107 ; Miers, Cat. Crust. N.Z., p. 3 ; Cat. Crust., p. 8, no. 14. P.J.

Family MAIIDÆ.

247 GONATORHYNCHUS TUMIDUS, Haswell, P.L.S., N.S.W., Vol. IV., p. 439, pl. XXV., f. 4 ; Cat. Crust., p. 10, no. 17. P.J.
248 PARAMITHRAX STERNOCOSTULALUS, A. M.-Ed. ; Cat. Crust., p. 13, no. 22. P.J.
249 MICIPPOIDES LONGIMANUS, Haswell, P.L.S., N.S.W., Vol. IV., p. 444, pl. XXVI., f. 5 ; Cat. Crust., p. 19, no. 30. P.J.
250 HYASTENUS DIACANTHUS, De Haan, Fauna, Jap., Crust., p. 86, pl. XXIV., f. 1 ; Cat. Crust., p. 20. P.J.
251 MICIPPA PARVIROSTRIS, Miers, Ann. & Mag. Nat. Hist., 5 Ser., Vol. IV., p. 13, pl. iv., f. 9 ; Cat. Crust., p. 23, no. 37. P.J.
252 M. SPINOSA, Stimp., P. Acad. N. S. Phil., p. 218, 1857 ; Cat. Crust., p. 26, no. 42. Sow and Pigs Reef, P.J.
253 PARAMICIPPA SPINOSA, Stimpson ; Miers, Zool. "Alert," p. 199. P.J.
254 CRYPTOPODIA SPATULIFRONS, Miers, Ann. & Mag. N. H., 5 Ser., Vol. IV., p. 26, pl. v., f. 10 ; Cat. Crust., p. 37, no. 59. P.J.

Family PARTHENOPIDÆ.

255 GONATONOTUS CRASSIMANUS, Haswell, P.L.S., N.S.W., Vol. IV., p. 455, pl. XXVI., f. 4 ; Cat. Crust., p. 39, no. 62. P.J.

CYCLOMETOPA.

Family CANCRIDÆ.

256 ACTAEA GRANULATA, Aud., Explication des Planches de l'Egypte, Crust., pl. vi., f. 2 ; Cat. Crust., p. 44, no. 70. Under stones Neutral Bay, P.J., (W.)
257 A. AFFINIS, Dana, U.S. Expl. Exp., Crust. I., p. 197, pl. xi., f. 3 ; Cat. Crust., p. 45, no. 72. P.J.
258 A. PERONII, M.-Ed., Hist. Nat., Crust. I., p. 392 ; Hess, Arch. fur Nat., XXXI., p. 132, pl. vi., f. 3 ; Cat. Crust., p. 46, no. 73. P.J.
259 XANTHODES NOTATUS, Dana, U.S. Expl. Exp., Crust. I., p. 178, pl. viii., f. 12 ; Cat. Crust., p. 49, no. 78 Under stones, Cabbage Tree Bay ; Watson's Bay, P.J. (W.)
260 X. ATROMANUS, Haswell ; Cat. Crust., p. 49, no. 79. Under stones, Watson's Bay, (W.)
261 CYCLOXANTHUS PUNCTATUS, Haswell, P.L.S., N.S.W., Vol. VI., p. 752 ; Cat. Crust., p. 50, no. 81. Coogee Bay, (W.) ; Parramatta River.

262 PSEUDOCARCINUS GIGAS, Lam., Cat. Crust., p. 52, no. 83. Lane Cove River, (Trebeck.)

263 CHLORODOPSIS AREOLATUS, M.-Ed., Nat. Hist., Crust. I., p. 400 ; Nouv. Archives du Museum, IX., p. 231, pl. viii., f. 8 ; Cat. Crust., 54, no. 88. P.J.

264 CHLORODIUS NIGER, Forskäl ; Miers, Zoology of H.M.S. "Samarang," Crust., p. 40, pl. x., f. 4, (as *C. hirtipes)*; Cat. Crust., p. 62, no. 103. P.J.

Family ERIPHIIDÆ.

265 OZIUS TRUNCATUS, M.-Ed., Nat. Hist., Crust. I., p. 406, pl. xvi., f. 11 ; Cat. Crust., p. 63, no. 104. P.J.

266 O. LOBATUS, Heller, Reise der Novara, Crust., p. 21, pl. ii., f. 4 ; Cat. Crust., p. 64, n. 105. P.J.

267 PILUMNUS RUFOPUNCTATUS, Stimp., P. Acad. N.S., Phil., Vol. x., sp. 90 ; Cat. Crust., p. 66, no. 112. Cabbage Tree Bay, (W.); P.J.

268 P. VESTITUS, Haswell, P.L.S., N.S.W., Vol. VI., p. 753 ; Cat. Crust., p. 68, no. 117. P.J.

269 P. FISSIFRONS, Stimpson, P. Acad. Nat. Sci., Phil., Vol. x., sp. 91 ; Cat. Crust.. p. 68, pl. i., f. 6. Cabbage Tree Bay, (W.); P.J.

270 P. GLABERRIMUS, Haswell, P.L.S., N.S.W., Vol. VI., p. 544 ; Cat. Crust., p. 69, no. 120. P.J.

271 P. INERMIS, Haswell, l.c., Vol. VI., p. 544 ; Cat. Crust., p. 70, no. 121. P.J.

272 P. LANATUS, Latreille ; Miers, Zool. "Alert," p. 220, pl. xxi., f. B. 5 – 7 fms., P.J.

273 P. INTEGER, Haswell, l.c., Vol. VI., p. 545 ; Cat. Crust., Addenda. P.J.

274 PILUMNOPEUS SERRATIFRONS, Kinahan, Jour. Roy. Dublin Soc., I., p. 113, pl. iv., f. 1, 1856 ; Cat. Crust., p. 70, pl. xi., f. 1, no. 122. Neutral Bay, P.J. (W.)

275 HEXAPUS SEXPES, Fabr., Entom. Syst. Suppl., p. 134 ; M.-Ed., in N. Arch. du Mus., IX., 253, pl. xii., f. 1 ; Cat. Crust., p. 71, no 123. P.J.

Family PORTUNIDÆ.

276 NEPTUNUS PELAGICUS, Linn., Syst. Nat., (ed XII.) p. 1042, 1766 ; Cat. Crust. p. 77, no. 131. P.J.

277 NEPTUNUS SANGUINOLENTA, Herbst., Krabben u. Krebse I., p. 161, pl. viii., figs. 56-57, (1796) ; Cat. Crust., p. 77, no. 132. P.J.

278 N. TOMENTOSA, Haswell, P.L.S., N.S.W., Vol. VI., p. 547 ; Cat. Crust., p. 78, no. 133. P.J.

279 SCYLLA SERRATA, Forskäl ; A. M.-Ed., Ann. Sci. Nat., XIV., 4 Ser., p. 252, pl. i., f. 11, 1860 ; Cat. Crust., p. 72, no. 134. Botany ; P.J.
280 THALAMITA PRYMNA, Herbst., Krab. u. K., pl. vii., f. 2 ; Fauna Japonica, Crust., p. 43, pl. xii., f. 2 ; Cat. Crust., p. 80, no. 137. P.J.
281 T. SIMA, M.-Ed. ; Miers, Zool. "Alert," p. 231. P.J.
282 T. ADMETE, Herbs.; Miers, Zool. "Alert," p. 230. 5 fms., P.J.
283 GONIOSOMA CRUCIFERA, Fabr., Suppl., p. 364 ; Cat. Crust., p. 81, no. 138. P.J.
284 NECTOCARCINUS INTEGREFRONS, Latr., M.-Ed., Nouv. Archiv. du Museum, x., p. 406, pl. xxxviii., f. 1, a, b, c, d, e, f, 1860 ; Cat. Crust., 81. no. 139. This species is often infested by a parasitic Crustacean *(Sacculina)*, see Note by Dr. Haswell, P.L.S., N.S.W., 1888. P.J.
285 LISSOCARINUS POLYBIOIDES, Adams and White, Voyage of "Samarang," Crust., p. 46, pl. xi., f. 5 ; Cat. Crust., p. 83, no- 142. P.J.
286 PLATYONYCHUS BIPUSTULATUS, M.-Ed., H. N., Crust I., p. 437, pl. xvii., f. 7-10 ; Cat. Crust., p. 84, no. 145. P.J.
287 EUCRATE SEXDENTATUS, Haswell, Cat. Crust., p. 86 ; Zool. "Alert," pl. xxiv., f. B. Off Botany, 45 fms.

CATAMETOPA.

Family MACROPHTHALMIDÆ.

288 MACROPHTHALMUS CARINIMANUS, M.-Ed., H.N., Crust. II., p. 65 ; Cat. Crust., p. 88, no. 150. P.J.
289 M. SETOSUS, M.-Ed., H.N., Crust. II., p. 65 ; Cat. Crust., p. 89, no. 154. P.J.
290 M. PUNCTULATUS, Miers, Zool. "Alert," p. 237, pl. xxv., f. A. P.J.
291 HELŒCIUS CORDIFORMIS, M.-Ed., H.N., Crust. II., p. 53 ; Cat. Crust., p. 91, no. 158. Common on mud flats Mossman's Bay, P.J., (W.)
292 GELASIMUS SIGNATUS, Hess., Arch. fur Nat. Band XXXI., p. 146 ; Cat. Crust., p. 93, no. 164. P.J.
293 G. VARIATUS, Hess., l.c., p. 146, pl. vi., f. 7 ; Cat. Crust., p. 94, no. 165. P.J.
294 OCYPODA MACLEAYANA, Hess., l.c., p. 143, pl. vi., f. 8, 1865 ; Cat. Crust., p. 95, no. 167. Bondi Bay. *O. cordimana* and *O. ceratophthalma* are to be found at Newcastle, (W.)

Family GRAPSIDÆ.

295 GRAPSUS VARIEGATUS, Fabr.; Haswell, Cat. Crust., p. 97, no. 170. Bondi Beach, common all round the coast and in P.J.

296 G. INORNATUS, Hess., Arch. fur Nat., p. 148, pl. vi., f. 11 ; Cat. Crust., p. 98, no. 176. P.J.

297 NAUTILOGRAPSUS MINUTUS, Linn.; Haswell, Cat. Crust., p. 99, no. 78. Among seaweed on the beach, Neutral Bay, (W.)

298 HETEROGRAPSUS SEXDENTATUS, M.-Ed., H.N., Crust. II., p. 79 ; Cat. Crust., p. 100, no. 179. N.S.W.

299 PACHYGRAPSUS TRANSVERSA, Geddes, Proc. Amer. Assoc. Ad. Sci., Vol. III., p. 110, 1850. Common under stones, Manly; Coogee ; Bondi, (W.)

300 CYCLOGRAPSUS LAVAUXI, M.-Ed., Ann. Sci. Nat., 3 Ser., xx., p. 187 ; Cat. Crust., p. 103, no. 186. Common under stones, Mossman's Bay, P.J. (W.)

301 CHASMAGNATHUS LÆVIS, Dana, U.S. Expl. Exp., Crust. I., p. 367, pl. xxiii., f. 7 ; Cat. Crust., p. 106, no. 193. Common under stones, Lane Cove ; Mossman's Bay, P.J. (W.)

302 C. HASWELLIANUS. This species was described by Dr. Haswell as *C. convexus*, P.L.S., N.S.W., Vol. VI., p. 550. De Haan described one under the same name ; they are however distinct, and I therefore dedicate this species to the learned author of the Cat. of Crustacea, p. 196, no. 124. P.J.

303 HELICE LEACHII, Hess, Arch. fur Nat., Band XXXI.,p. 153, 1865 ; Cat. Crust., p. 107, no. 196. P.J.

304 H. CRASSA, Dana, U.S. Expl. Exp., Crust., p. 367, pl. xxiii., f. 8. Sow and Pigs, P.J., ("Challenger.")

305 SESARMA ROTUNDATA, Hess, l.c., p. 159, pl. vi., f. 9 ; Cat. Crust., p. 108, no. 197. P.J.

306 S. ATRORUBENS, Hess, l.c., p. 148, pl. vi., f. 12 ; Cat. Crust., p. 108, no. 198. P.J.

307 S. SIMILIS, Hess, l.c., p. 150; Cat. Crust., p. 108, no. 199. P.J.

308 S. SCHUTTEI, Hess, l.c., p. 150, pl. vi., f. 11 ; Cat. Crust., p. 109, no. 200. P.J.

309 S. ERYTHRODACTYLA, Hess, l.c., p. 151, pl. vi., f. 10 ; Cat. Crust., p. 109, no. 201. Lane Cove River, left bank above bridge, common ; and at Mossman's Bay, P.J. (W.)

310 S. BIDENS, De Haan, Fauna Japonica, p. 60, pl. xiv., f. 4, pl. xi., f. 4 ; Miers, Zool. "Alert," p. 249. 5 fms., P.J.

311 PLAGUSIA TUBERCULATUS, Lam., Hist. Anim. sans Vert., p. 247 ; Cat. Crust., p. 110, no. 202. P.J.

312 P. GLABRA, Dana, U.S. Expl. Exp., Crust. I., p. 371, pl. xxiii., f. 10 ; Cat. Crust., p. 111, no. 204. Coogee Bay (W.); Bondi (J. D. Ogilby).

313 P. CHABRUS, Linn., Syst. Nat., p. 1044, 1766 ; Cat. Crust., p. 111, no. 205. P.J.

314 LEIOLOPHUS PLANISSIMUS, Herbst., = *P. clavimana*, Desm., Consid. Crust., p. 127, pl. xiv., f. 2, 1825 ; Cat. Crust., p. 112. P.J.

Family PINNOTHERIDÆ.

315 HYMENOSOMA PLANATUM, Fabr., Ent. Syst. II., p. 446,(1793); Cat. Crust., p. 114, no. 209. P.J.

316 H. VARIUM, Dana, U.S. Expl. Exp., Crust. I., p. 387, pl. xxiv., f. 9 ; Cat. Crust., p. 115, no. 211. P.J.

317 H. OVATUS, Stimpson, Proc. Acad. N. Sci., Phil., p. 109, 1858. P.J.

318 H. KREFFTII, Hess, Arch. fur Nat., Band xxxi., p. 141, pl. vi., f. 5, 1865 ; Cat. Crust., p. 115, no. 212. P.J.

Family MYCTERIDÆ.

319 MYCTERIS LONGICARPUS, Latr., Encyclop., pl. ccxcvii., f. 3 ; Cat. Cust., p. 116, no. 214. Common on mud-flats, P.J.

320 M. PLATYCHELES, M.-Ed., Ann. Sci. Nat., tome xviii., p. 154 ; Cat. Crust., p. 117, no. 215. Botany.

OXYSTOMATA.

Family LEUCOSIIDÆ.

321 LEUCOSIA SPLENDIDA, Haswell, P.L.S., N.S.W., Vol. iv., p. 47, pl. v., f. 1 ; Cat. Crust., p. 119, no. 224. P.J.

322 L. POLITA, Hess, Arch. fur Nat., xxxi., p. 155, pl. iv., f. 4 ; Cat. Crust., p. 120, no. 227. P.J.

323 L. AUSTRALIENSIS, Miers, C.R., Vol. xvii., p. 323, pl. xxvii., f. 1. 3 fms., P.J.

324 PHLYXIA CRASSIPES. Bell, Trans. Linn. Soc., Vol. xxi., p. 304, pl. xxxiv., f. 2 ; Cat. Crust., p. 124, no. 236.

325 P. GRANULOSA, Haswell, P.L.S., N.S.W., Vol. iv., p. 54, pl. vi., f. 3 ; Cat. Crust., p. 126, no. 242. Dredged off P.J. Heads.

326 P. RAMSAYI, Haswell, l.c., p. 55 ; Cat. Crust., p. 127, no. 243. P.J.

327 P. UNDECEMSPINOSA, var. ORBICULARIS, Haswell ; Miers, C.R., Vol. xvii., p. 309. Sow and Pigs Reef, P.J.

328 P. QUADRIDENTATA, Gray, Zool. Miscell. II., 1841 ; Miers, Zool. "Alert," p. 252, P.J. ; var. SPINIFERA, Miers, C.R., Vol. xvii., p. 309, pl. xxv., f. 3. P.J.

329 MATUTA VICTRIX, Fabr., Spec. Ins. II., append. p. 502, (1781); Cat. Crust., p. 133. P.J.

330 M. LAEVIDACTYLA, Miers, Tran. Linn. Soc., Vol. i., Series 2, p. 247, pl. xl., f. 10-11. 3 fms. P.J.

331 M. LINEIFERA, Miers, Trans. Linn. Soc., Vol. i., Series 2, Zoology, p. 243, pl. xxxix., f. 1-3, 1877 ; Cat. Crust., p. 134, no. 257. Chowder Bay.

332 M. PICTA, Hess, Arch. fur Nat., xxxi , p. 158, pl. vi,, f. 13 ; Cat. Crust., p. 135, no. 259. P.J.

333 CALAPPA HEPATICA, Linn., Cat. Crust., p. 136.
334 C. LOPHOS, Herbst., De Haan, Fauna Japonica, Crust., p. 72, pl. xxi., f. 1, (1837). Off P.J., ("Challenger.")
335 C. CRISTATA, Fabr.; M.-Ed., Hist. Nat., Crust., Vol. II., p. 105, pl. xx., f. 1. P.J.

DROMIDEA.

336 CRYPTODROMIA LATERALIS, Gray, Zool. Misc., p. 40, 1831; Cat. Crust., p. 139, no. 264. Under stones, Neutral Bay, (W.)
337 DROMIA AUSTRALIENSIS, Haswell, P.L.S., N.S.W., Vol. VI., p. 755; Cat. Crust., p. 139, no. 265. P.J.
338 D. EXCAVATA, Stimp., Proc. Acad. Nat. Sci., Phil., x., sp. 277; Cat. Crust., p. 140, no. 266. P.J.
339 D. SCULPTA, Haswell, P.L.S., N.S.W., Vol. VI., p. 756; Cat. Crust., p. 141, no. 268. Littoral, Green Point, P.J., (W.)

Family PARATOMOLIDÆ.

340 LATRAEILLA AUSTRALIENSIS, C.R., Vol. XXVII., p. 24, pl. ii., f. 4. Off P.J.
341 PARATYMOLUS LATIPES, Haswell, Ann. & Mag., Nat. Hist., Vol. v., Ser. 5, p. 303, pl. xvi., f. 1-2, 1880; Cat. Crust., p. 143, 271. P.J.

RANINIDEA.

342 RANINA DENTATA, Latr., Encyclop., Vol. x., p. 208; Cat. Crust., p. 144, no. 272. P.J.
343 LYREIDUS TRIDENTATUS, De Haan, Fauna Jap., Crust., p. 240, pl. v., f. 6, 1849; Cat. Crust., p. 144, no. 273. Off P.J. Heads.

PORCELLANIDEA.

344 PORCELLANA DISPAR, Stimp., P. Acad. Nat. Sci., Phil., Vol. x., sp. 297; Cat. Crust., p. 149, no. 283. Littoral, Neutral Bay, (W.)

PAGURIDEA.

345 EUPAGURUS SINUATUS, Stimp., P. Acad. N. Sci., Phil., Vol. x., p. 348; Cat. Crust., p. 153, no. 288. Under stones, in shells of *Turbo undulatum*, Watson's Bay, P.J., (W.)
346 E. ACANTHOLEPIS, Stimp., l.c., no. 350; Cat. Crust., p. 153, no. 289. P.J.
347 E. LACERTOSUS, var. NANA, Henderson, C.R., Vol. XXVII., p. 64, pl. vii., f. 1. Station 163 B, 35 fms. off P.J.

348 PAGURUS PAVIMENTATUS, Hilgendorf, Monatsberichte der Berlin, Akad., 1878, p. 816, pl. iii., figs. 1-5. P.J. The Port Jackson specimens in the Australian Museum belong to this species, and so far *Eupagurus setifer* is wanting in the collection.

349 P. STRIATUS, Latr.; De Haan, Fauna Japonica, Crust., p. 206, pl. xlix., f. 1. P.J.

350 P. PEDUNCULATUS, Herbst.; Miers, Ann. & Mag. N.H., Ser. 5, Vol. v., p. 374 ; Cat. Crust., p. 155, no. 293. P.J.

351 P. DEFORMIS, M.-Ed., Ann. des Sci. Nat., Ser. 5, Vol. VI., p. 272, pl. xiii., f. 4, 4a. In shell of Natica, P.J.

352 ANAPAGURUS AUSTRALIENSIS, Henderson, C.R., Vol. XXVII., p. 74, pl. vii., f. 8. 2 – 10 fms., P.J.

353 DIOGENES MILES, Fabr. ; M.-Ed., l.c., p. 284, pl. xiv., f. 2 ; Cat. Crust., p. 156, no. 295. N.S.W., (Dana.)

354 D. CUSTOS, Fabr., Cat. Crust., p. 157, no. 296. P.J.

355 D. SENEX, Heller, Reise der Novara, Crust., p. 85, pl. vii., f. 3. In shells of *Lampania australis*, Watson's Bay, (W.)

356 CALCINUS SP. Watson's Bay, (W.)

357 CLIBANARIUS STRIGIMANUS, White, P.Z.S., 1847, p. 121, figured in the Zoology of the "Erebus" and "Terror," pl. ii., f. 4. In shell of *Voluta fusiformis*, off P.J.

358 C. SP. In shells of Lampania, Watson's Bay, (W.)

359 C. SP. In a shell of *Turritella Gunni*, off P.J. (Brazier.)

360 PAGURISTES BARBATUS, ? Heller, Reise der Novara, Crust., p. 90, pl. vii., f. 5. In the shells of *Turbo undulatum*, Watson's Bay, (W.)

361 P. SP. P.J.

362 CANCELLUS TYPUS, M.-Edwards, Ann. des Sci. Nat., Ser. 2, Vol. VI.. p. 287, pl. xiv., f. 3, 3a ; Hist. Nat. Crust., Vol. II., p. 243, = *Grallograpsus lithodomus*, Zietz., T. R. Soc., Adelaide, 1887, Vol. x., p. 298, pl. xiv. Dredged in P.J., (Dr. Ramsay.)

GALATHEIDEA.

363 GALATHEA AUSTRALIENSIS, Stimpson, P. Acad. Nat. Sci., Phil., Vol. x., p. 351 ; Cat. Crust , p. 161, pl., no. 304. P.J.

364 URYPTYCHUS AUSTRALIS, Henderson, C.R., Vol. XXVII., p. 179, pl. xxi., f. 4 410 fms., Station 163 B, off P.J.

365 U. GRACILLIMUS, Henderson, C.R., p. 181, pl. xxi., f. 5. 410 fms., Station 163 B, off P.J.

366 MUNIDA HASWELLI, Henderson, C.R., Vol. XXVII., p. 139, pl. iii., f. 5-5b. Off P.J., ("Challenger.")

Class II. ARACHNIDA.

Pycnogonidia.

Family NYMPHONIDÆ.

367 Nymphon æquidigitatum, Haswell, P.L.S., N.S.W., Vol. ix., p. 1022, pl. liv., f. 1-5. Dredged, P.J., (Dr. Haswell).

Family COLOSSENDEIDÆ.

368 Ammothea longicollis, Haswell, l.c., p. 1028, pl. lvi., f. 1-4. P.J., (Dr. Haswell).

369 A. assimilis, Haswell, l.c., p. 1026, pl. lv., f. 5-9. Clark Island, P.J., (Dr. Haswell).

370 Achelia lævis, var. Australiensis, Miers, Zool. "Alert," p. 323, pl. xxxv., f. A. P.J.

Family PALLENIDÆ.

371 Pallene chiragra, M.-Ed., Hist. Nat. Crust., Vol. iii., p. 535. P.J. ; Jervis Bay.

372 Phoxichilidium tubiferum, Haswell, l.c., p. 1032, pl. lvii., f. 1-5. Dredged, P.J., (Dr. Haswell).

Order ARANEIDA.

373 There is a very common species of Spider found under stones about low water mark, it appears to be covered with a short silky pubescence which prevents the salt water from wetting the body. Watson's Bay ; Taylor Bay, (W.)

Class HEXOPODA

Order NEUROPTERA.

Sub-Order Trichoptera.

374 Philanisus sp. R. MacLachlan, Entom. Month. Magazine, 1887, p. 154. In rock-pools between tide marks, near Mrs. Macquarie's Chair, (Dr. Haswell); Chowder Bay, (A. S. Olliff.)

Order HEMIPTERA.

375 Halobates Wulerstorffi, Buchanan White, Chall. Report, Vol. vii., p. 40, pl. i., f. 1. Surface, between Broken Bay and Port Jackson, (A. S. Olliff.)

Order DIPTERA.

Family CHIRONOMIDÆ.

376 Camptocladius crassipennis, Skuse, P.L.S., N.S.W., 1889. Among seaweed, P.J., (F. A. A. Skuse.)

Family TIPULIDÆ.

377 DICRONOMYIA MARINA, Skuse, P.L.S., N.S.W., 1889. Among seaweed, Manly, (F. A. A. Skuse.)

Sub-Kingdom MOLLUSCA.

Class PELECYPODA.

Order SIPHONIDA.

Sub-Order Sinupalliata.

Family GASTROCHAENIDÆ.

1 ASPERGILLUM STRANGEI, A. Adams, P.Z.S., 1852, p. 91, pl. XV., f. 5. Near P.J. Heads.

2 CLAVAGELLA AUSTRALIS, Sowerby ; Reeve, Conch. Icon., Vol. XVIII., pl. iii. ; Sow., in Stutchbury's Catalogue, pl. i., f. 1. Watson's Bay, (Strange) (Angas).

Family PHOLADIDÆ.

3 BARNEA SIMILIS, Gray, MS. Brit. Mus. ; Sow., Thes. Conch., pl. ciii., f. 12-14. Bottle and Glass Rocks, (Brazier).

Family SOLENIDÆ.

4 SOLEN SLOANII, Gray, MS. Brit. Mus.; Hanley, Cat. of Bivalve Shells, p. 12 and p. 336, pl. xi., f. 18 ; Sow., Conch. Icon., Vol. XIX., pl. iii., f. 10. Middle Harbour.

5 CULTELLUS AUSTRALIS, Dunker, P.Z.S., 1861, p. 443. Dredged in Lane Cove River.

Family SAXICAVIDÆ.

6 SAXICAVA ARCTICA, Linn. ; Reeve, Conch. Icon., Vol. xx., pl. i., f. 1, = *S. Australis*, Lam. ; Reeve, l.c., pl. ii., fig. 8 a, b, c, d. P.J.

7 S. ANGASI, A. Adams ; Reeve, Conch. Icon., Vol. xx., pl. ii., sp. 11. Off Ball's Head, 18 fms., (Brazier.)

Family CORBULIDÆ.

8 CORBULA TUNICATA, Hinds, P.Z.S., 1843, p. 55 ; Reeve, Conch. Icon.., Vol. II., f. 5. Dredged in 5 to 7 fathoms, Lane Cove River.

9 C. NASUTA, Sowerby, P.Z.S., 1833; Reeve, Conch. Icon., Vol. II., pl. i., f. 1. Dredged in 7 to 10 fathoms, Inner North Head, P.J.

10 C. SCAPHOIDES, Hinds, P.Z.S., 1843, p. 56 ; Reeve, Conch. Icon., Vol. II., pl. iii., f. 24. Dredged.

11 C. ZELANDICA, Quoy. & Gaim., Astrolabe, Vol. III., p. 511, pl. lxxxv., f. 12-14. Dredged in Middle Harbour.
12 C. SMITHIANA, Brazier, P.L.S., N.S.W., Vol. IV., p. 388, = *C. venusta*, Angas, (non Gould) P.Z.S., 1871, p. 20, pl. i., f. 29. Sow and Pigs Reef, 3 – 4 fms.; Mouth of Lane Cove River, 4 fms., (Brazier.)
13 NEAERA ANGASI, Smith, C.R., Vol. XIII., p. 47, pl. ix., f. 2, 2b. Station 164 B, off P.J., 401 fms.
14 N. BRAZIER, Smith, C.R., p. 51, pl. ix., f. 3-3b, = *N. rugata*, Angas (non A. Adams.) Sow and Pigs Reef.
15 N. PURA, Angas, P.Z.S., 1871, p. 20, pl. i., f. 30. Lane Cove River (Brazier.)
16 CRYPTOMYA ELLIPTICA, A. Adams, P.Z.S., p. 88, 1850. Lane Cove River in sandy mud, 3 fms., (Brazier.)

Family ANATINIDÆ.

(PANDORÆ.)

17 MYODORA CRASSA, Stutchbury, Zool. Jour., Vol. v., p. 100, Suppl. 43, f. 5-6; Reeve, Conch. Icon., Vol. II., pl. i., f. 1. Dredged in Middle Harbour.
18 M. PANDORÆFORMIS, Stutchbury, l.c., p. 43, f. 3, 4; Reeve, Conch. Icon., Vol. II., pl. i., f. 10. Dredged in Middle Harbour.
19 M. OVATA, Reeve, Conch. Icon., Vol. II., pl. i., f. 4. Dredged in P.J.
20 M. BREVIS, Stutchbury, l.c., 43, f. 1-2; Reeve, Conch. Icon., Vol. II., pl. i., f. 7 a-b. Dredged in Lane Cove River; Farm Cove, and Mossman's Bay.
21 MYOCHAMA ANOMIOIDES, Stutchbury, l.c., pl. xlii., f. 1-4; Woodward, Man. Moll., pl. xxiii., f. 13. Dredged near Sow and Pigs Reef.
22 M. STRANGEI, A. Adams, P.Z.S., 1852, pl. xv., f. 2. Dredged inside the North Head.

(THRACIÆ.)

23 THRACIA ANATINOIDES, Reeve, Conch. Icon., Vol. XII., pl. iii., f. 12. Dredged between Watson's Bay and Sow and Pigs Reef.
24 T. AUSTRALICA, Reeve, Conch. Icon., Vol. XII., pl. iii., f. 13. Dredged in P.J.
25 T. MODESTA, Angas, P.Z.S., p. 908, pl. xliv., f. 3, 18 1867; C.R., p. 71. Dredged off Ball's Head, (Brazier).
26 T. SPECIOSA, Angas, P.Z.S., 1869 p. 48, pl. ii., f. 12. Dredged off Sow and Pigs Reef, (Brazier).
27 T. ANGASIANA, Smith, Jour. Linn. Soc., Vol. XII., p. 560, pl. xxx., f. 23. Sow and Pigs Reef, (Brazier).

28 T. CULTRATA, Gould, Otia. Conch., p. 161. P.J.
29 T. BRAZIERI, Sowerby, P.Z.S., 1883, p. 465, = *T. Jacksoniensis*, Sowerby, P.Z.S., 1883, p. 30. Sow and Pigs Reef, (Brazier).
30 T. JACKSONIANA, Smith, Jour. Linn Soc., Vol. XII., p. 361, pl. XXX., f. 24. Sow and Pigs Reef, (Brazier.)
31 T. ANGUSTATA, Angas, P.Z.S., 1867, p. 908, pl. xliv., f. 1; C.R., p. 58. Dredged inside South Head Reef, (Brazier.)
32 T. ELEGANTULA, Angas, P.Z.S., 1867, p. 908, pl. xliv., f. 2. Dredged between Watson's Bay and Sow and Pigs Reef.

(ANATINÆ.)

33 ANATINA CRECCINA, Val., MS. Mus. Cuming.; Reeve, Conch. Icon., Vol. XIV., pl. ii., f. 12. P.J.
34 A. TASMANICA, Reeve, Conch. Icon., Vol. XIV., pl. iii., f. 20. P.J.
35 A. PROLONGATA, Reeve, Conch. Icon., Vol. XIV., pl. iv., f. 28. Dredged in sandy mud near Spectacle Island, P.J.
36 A. ANGASI, Crosse & Fischer, Jour. de Conch., 1864, Vol. XII., p. 394; 1865, p. 427, pl. xi., f. 1. Off Chowder Bay, 10 fms., (Brazier).

Family MACTRIDÆ.

37 MACTRA CONTRARIA, Deshayes, P.Z.S., 1854; Reeve, Conch. Icon., Vol. VIII., pl. xvii., f. 86. P.J.
38 M. PUSILLA, A. Adams, P.Z.S., 1855, p. 226; C.R., Vol. XIII., p. 60, pl. v., f. 8, 8e = *M. Luzonica*, Angas (non Deshayes) Dredged in Middle Harbour.
39 M. EXIMIA, Deshayes, P.Z.S., 1853; Reeve, Conch. Icon., Vol. VIII., pl. viii., f. 31. Dredged alive in Chowder Bay, (Brazier).
40 M. CRETACEA, Angas, P.Z.S., 1867, p. 909, pl. xliv., f. 6 = *M. producta*, Angas, P.Z.S., 1867, p. 909, pl. xliv., f. 7, = *M. fluviatilis*, Angas, P.Z.S., 1871, p. 20, pl. i., f. 31. Johnson's Bay and Parramatta River.
41 M. CORBULOIDES, Deshayes, P.Z.S., 1854; Reeve, Conch. Icon., Vol. VIII., pl. xix., f. 103. Rushcutter's Bay.
42 M. DEPRESSA, Reeve, Conch. Icon., Vol. VIII., f. 67; C.R., p. 57. P.J. 2 – 10 fms., ("Challenger.")
43 M. JACKSONIENSIS, Smith, C.R., Vol. XIII., p. 63, pl. v., f. 9, 9b, = *M. pusilla*, Angas, (non A. Adams). P.J., 2 – 10 fms., ("Challenger.")
44 M. OVALINA, Lam.; Reeve, Conch. Icon., Vol. XIV., f. 66. Dredged in Middle Harbour.
45 LUTRARIA DISSIMILIS, Deshayes, P.Z.S., 1854; Reeve, Conch. Icon., Vol. VIII., pl. ii., f. 8. In sandy mud, Middle Harbour.

46 L. ACINACES, Quoy & Gaim., Astrolabe, Vol. III., p. 545, pl. lxxxiii., f. 5, 6 ; Reeve, Conch. Icon., Vol. VIII., pl. iv., f. 14. Botany Bay.
47 EASTONIA ÆGYPTIACA, Gray ; Wood's, Index Test., pl. vi., f. 34. Lake Macquarie.

Family PAPHIIDÆ.

48 MESODESMA ELONGATA, Deshayes ; Reeve, Conch. Icon., Vol. VIII., Mesodesma, pl. i., f. 5. Botany Bay.
49 M. PRÆCISA, Deshayes, P.Z.S., 1854 ; Reeve, Conch. Icon., Vol. VIII., pl. iv., f. 31 ; = *obtusa*, Crosse & Fischer, Jour. de Conch., 1864, p. 350. Sand Spit, Middle Harbour.
50 ERVILIA BISCULPTA, Gould, P. Bost. Soc., N. Hist., 1861, Vol. VIII., p. 28 ; Otia. Conch., p. 166. P.J.

Family SEMELIDÆ.

51 SYNDOSMYA ELLIPTICA, Sowerby, Conch. Icon., Vol. XVII., f. 223 ; Zool. " Alert," p. 99, pl. vii., f. C, C 1, (as Tellina). P.J.
52 THEORA NITIDA, Gould, Otia. Conch., 162. Dredged, Lane Cove River, 6 fms. (Brazier).

Family TELLINIDÆ.

53 GARI TOGATA, Deshayes, P.Z.S., 1854, p. 318. (Psammobia). P.J.
54 G. MALACCANA, Reeve, Conch. Icon., Vol. x., (Psammobia) pl. vi., f. 42. Dredged, Lane Cove River.
55 G. ZONALIS, Lam.; Reeve, Conch. Icon., Vol. x., f. 29. Middle Harbour.
56 G. ANOMALA, Deshayes, P.Z.S., 1854, p. 320 ; Reeve, Conch. Icon., Vol. x., f. 5. Brisbane Water.
57 G. MODESTA, Deshayes, P.Z.S., 1854, p. 319 ; Reeve, Conch. Icon., Vol. x., f. 3 ; = *Menkeana*, Reeve = *angusta*, Reeve. P.J.
58 G. PALLIDA, Deshayes, P.Z.S., 1854, p. 323 ; Reeve, Conch. Icon., Vol. x., f. 42. P.J.
59 HIATULA EPIDERMIA, Deshayes ; Reeve, Conch. Icon., Vol. x., pl. i., f. 3. (Soletellina.) P.J.
60 H. BIRADIATA, Wood, Gen. Conch., pl. xxxiii., f. 1 ; Reeve, Conch. Icon., Vol. x., pl. ii., f. 7. Middle Harbour.
61 H. FLORIDA, Gould, P. Bost. Soc. N.H., 1846, Otia. Conch., p. 81. Curl Curl Lagoon.
62 TELLINA TRISTIS, Deshayes, P.Z.S., 1854 ; Sow., Thes. Conch. Vol. I., pl. lxiv., f. 229. Botany Bay.
63 T. ALBINELLA, Lam. ; Reeve, Conch. Icon., Vol. XVII., pl. xxi., f. 15 b. Broken Bay.

64 T. SUBELLIPTICA, Sowerby, Conch. Icon., Vol. XVII., pl. XXXIX., f. 220 a-b. Dredged in Watson's Bay, 3 fms.
65 T. SEMITORTA, Sow., in Conch. Icon., Vol. XVII., pl. XXXIX., f. 221 a-b ; C.R., p. 111. Dredged.
66 T. TICAONICA, Deshayes, P.Z.S., 1854, p. 358 ; Reeve, Conch. Icon., Vol. XVII., pl. li, f. 304. Dredged at Lane Cove.
67 T. TENUILIRATA, Sow., in Conch. Icon., Vol. XVII., pl. XXXIX., f. 219 a-b ; C.R., p. 106. Dredged at Sow and Pigs Reef.
68 T. BRAZIERI, Sowerby ; Reeve, Conch. Icon., Vol. XVII., pl. lv., f. 323. Sow and Pigs' Reef, 5 fms., (Brazier).
69 T. UNIFASCIATA, Sow., in Conch. Icon., Vol. XVII., pl. XXIX., f. 156. Dredged.
70 T. LILIUM, Hanley, P.Z.S., 1844 ; Thes. Conch., Vol. I., pl. lviii., f. 85. Dredged at Lane Cove.
71 T. SEMIPLANA, Sow., in Conch. Icon., Vol. XVII., pl. XXXIX., f. 222 a-b. Dredged.
72 T. SEMIFOSSILIS, Sow., in Conch. Icon., Vol. XVII., pl. xli., f. 237. Johnson's Bay.
73 T. DECUSSATA, Lam.; Reeve, Conch. Icon., Vol. XVII., pl. XVII., f. 88. Bottle and Glass Rocks, (Brazier).
74 T. PERNA, Spengler , Reeve, Conch., Icon., Vol. XVII., pl. IV., f. 12 a, b. P.J.
75 T. STRIATULA, Lam.; Hanley, in Sow., Thes. Conch., Vol. I.. p. 255, pl. lxi., f. 175. Outer North Head, 12 fms., (Brazier).
76 MYSELLA ANOMALA, Angas, P.Z.S., 1877, p. 176, pl. XXVI., f. 22. Off Shark Island, 12 fams., (Brazier).
77 DONAX DELTOIDES, Lam.; Reeve, Conch. Icon., Vol. VIII., pl. I., f. 4 a, b. = *epidemia*, Lam. Manly Beach.
78 D. RADIANS, Lam.; Reeve, Conch. Icon., Vol. VIII., pl. viii., f. 26 a. Berry's Bay, 5 fms.
79 D. NITIDUS, Deshayes, P.Z.S., 1854, p. 350 ; Reeve, Conch. Icon., Vol. VIII., f. 34 ; C.R., p. 112. Dredged in Middle Harbour, P.J.

Family PETRICOLIDÆ.

80 RUPELLARIA MITIS, Deshayes, P.Z.S., 1853, p. 5. Botany Bay.
81 R. CRENATA, Lam. ; Reeve, Conch. Icon., Vol. I., pl. i., f. 5. (as *Cypricardia serrata.)* P.J.
82 CHORISTODON RUBIGINOSUM, A. Adams & Angus, P.Z.S., 1863, p. 425, pl. XXXVII., f. 17. Dredged at Watson's Bay, 4 fms.

Family VENERIDÆ.

83 VENUS LAQUEATA, Sowerby, Thes. Conch., Vol. II., pl. cliii., f. 15 ; Reeve, Conch., Icon., pl. vi., f. 20. Dredged, Parramatta River and Lane Cove River,, 3 – 5 fms.

84 V. STRIATISSIMA, Sow., Thes. Conch., Vol. II., p. 718, pl. clvii., f. 103-105; Reeve, Conch. Icon., pl. xxvi., f. 135; C.R., p. 124. Dredged at Watson's Bay.

85 V. ROBORATA, Hanley, P.Z.S., 1844, p. 161; Reeve, Conch. Icon., Vol. XIV., pl. xxiii., f. 113. Dredged at Sow and Pigs Reef.

86 V. CALOPHYLLA, Philippi, Wiegmann's Arch. fur Nat., 1836, Bd. I., p. 229, pl. viii., f. 2; Reeve, Conch. Icon., Vol. XIV., pl. xxiii., f. 114; C.R., p. 122. Mouth of Lane Cove River.

87 V. LAMELLATA, Lam.; Reeve, Conch. Icon., Vol. XIV., pl. xviii., f. 78. Dredged at Sow and Pigs Reef, (Brazier.)

88 V. JACKSONI, Smith, C.R., Vol. XIII., p. 123, pl. iii., f. 2, 2c. P.J., 4 – 18 fms., ("Challenger.")

89 V. AUSTRALIS, Sow., P.Z.S., 1835, p. 22; Thes. Conch., Vol. II., p. 719, pl. clvii., f. 111-112. Watson's Bay.

90 V. FUMIGATA, Sow., Thes. Conch., Vol. II., p. 102, pl. clix., f. 152-155. Rose Bay, sandy flats.

91 V. LAEVIGATA, Sow., Thes. Conch., Vol. II., p. 103, pl. clix., f. 156-158. Berry's Bay, on sand flats at low water.

92 V. UNDULOSA, Lam., var.; Reeve, Conch. Icon., Vol. XIV., pl. xxv., f. 126 a-b. Dredged at Watson's Bay.

93 V. CHEMNITZI, Hanley, P.Z.S., 1844, p. 160; Reeve, Conch. Icon., Vol. XIV., pl. x., f. 32 a-b. Near the Heads and off Green Point, (Brazier).

94 V. (CHIONE) PAUCILAMELLATA, Dunker, Novitates Conchologicæ, p. 52, pl. xvi., f. 10, 11, 12, 1858, = *V. alatus*, Reeve, Conch. Icon., Vol. XIV., pl. xviii., f. 83, = *C. alatus*, Angas, P.Z.S., 1867, = *Callista Victoriæ*, Tenison-Woods, P.R.S., Tasmania, 1876, p. 171. P.J., (Brazier).

95 V. (CHIONE) SCABRA, Hanley, P.Z.S., 1844, p. 161; Reeve, Conch. Icon., Vol. XIV.; pl. xxi., f. 97. Sow and Pigs Reef, (Brazier).

96 CYTHEREA DISRUPTA, Sowerby, Thes. Conch., Vol. II., p. 743, pl. clxiii., f. 208-209; C.R., p. 135, pl. i.. f. 4, 4 E. Dredged at Watson's Bay.

97 C. RUTILA, Sow., Thes. Conch., Vol. II., p. 743, pl. clxiii., f. 205; C.R., p. 133. Watson's Bay.

98 C. HEBRAEA, Lam.; Reeve, Conch. Icon., Vol. XIV., f. 34; C.R., p. 138, = *C. Sophiæ*, Angas. Cape Solander, Botany Bay.

99 C. SCRIPTA, Linn.; Sow., Thes. Conch., (Circe) Vol. II., pl. 139, f. 38- 42; C.R., p. 141, = *undatina*, Lam.. P.J., 4 to 18 fms., ("Challenger.")

100 C. ANGASIA, Smith, C.R., Vol. XIII., p. 148, pl. ii., f. 4, 4e = *Gouldia Australis*, Angas. P.J.

101 SUNETTA ADELINAE, Angas, P.Z.S., 1867, p. 909, pl. xliv., f. 5. Dredged in deep water near P.J. Heads.
102 DOSINIA SCULPTA, Hanley; Reeve, Conch. Icon., Vol. VI., (Artemis) pl. ix., f. 52. Dredged.
103 D. SCABRIUSCULA, Philippi, Abbild. und Besch., Conch. 11, p. 230; Reeve, Conch. Icon., Vol. VI., pl. iii., f. 14. P.J.
104 D. PUELLA, Angas, P.Z.S., 1867, p. 990, pl. xliv., f. 4. Botany Bay.
105 D. CIRCINARIA, Deshayes, Cat. Con. Brit. Mus., p. 9; C.R., p. 150, pl. i., f. 2, 2c. P.J., 2 – 10 fms., ("Challenger.")
106 CLEMENTIA PAPYRACEA, Gray, Ann. of Philosophy, Vol. IX., p 137, 1825; Woods, Index Test. Suppl. p. 5, pl. ii., f. 8; Chenu, Man. Con., Vol. II., f. 410. Dredged at Mossman's Bay.
107 TAPES INFLATA, Deshayes, P.Z.S., 1853, p. 8, pl. xix., f. 3, = *T. turgidula*, Reeve, (non Desh.) Conch. Icon., Vol. XIV., pl. vii., f. 32. Dredged at Lane Cove River.
108 T. UNDULATA, Born., Test. Mus. Caesar. Vindobon. p. 67; Reeve, Conch. Icon., Vol. XIV., f. 8; C.R., p. 115. Parramatta River.
109 T. TURGIDA, Lam., Anim sans Vert., Vol. VI.. p. 358; Reeve Conch. Icon., Vol, XIV., pl. iii., f. 11. In mud at low water, Middle Harbour; Rose Bay.
110 T. SEMIRUGATA, Phil.; Sow., Thes. Conch., Vol. II., p. 681, pl. cxlv., f. 12, = *T. polita*, Sowerby. Dredged near Sydney, 6 fms.
111 T. FABAGELLA, Deshayes, P.Z.S., 1853, p. 10; Reeve, Conch., Icon., Vol. XIV., f. 66. P.J.

Family GLAUCOMYIDÆ.

112 GLAUCOMYA ANGULATA, Reeve, P.Z S., 1844; Conch. Icon., Vol. II., pl. i., f. 5. From sandy mud at low water, Lane Cove and Parramatta Rivers.

Sub-Order Integripalliata.

Family CARDIIDÆ.

113 CARDIUM PAPYRACEUM, Chemnitz, Conch. Cab., Vol. VI., p. 190, pl. xviii., f. 184; Reeve, Conch. Icon., Vol. II., pl. ii., f. 9. Dredged in Middle Harbour.
114 C. TENUICOSTATUM, Lam.; Reeve, Conch. Icon., Vol. II., pl. x., f. 50; C.R., p. 159. Dredged, Botany Bay.
115 C. PULCHELLUM, Gray, Diffenbach's New Zealand, Vol. II., p. 252; Reeve, Conch. Icon., Vol. II., pl. viii., f. 42. Dredged inside P.J. Heads.

116 C. DONACIFORME, Schroeter, Einl. Conch., Vol. III., p. 68, pl. vii., f. 14, 1786 ; Reeve, Conch. Icon., Vol. II., pl. v., f. 25, = *C. Australiense*, Reeve, Conch. Icon., Vol. II., pl. v., f. 24.

Family CHAMIDÆ.

117 CHAMA SPINOSA, Brod., Trans. Z. Soc., Vol. I., p. 306, pl. XXXVIII., f. 8-9 ; Reeve, Conch. Icon., Vol. IV., pl. viii., f. 44. P.J.

118 C. REFLEXA, Reeve, Conch. Icon., Vol. IV., pl. iv., f. 16. Middle Harbour, (Rev. R. L. King).

119 CHAMOSTREA ALBIDA, Lam., = *Cleidothaerus chamoides*, Stutchbury, Zool. Jour. p. 98, pl. xlii., f. 5-8; Sow., Genera of Shells, f. 1-3. Near P.J. Heads.

Family LUCINIDÆ.

120 LUCINA SIMPLEX, Reeve, Conch. Icon., Vol. VI., pl. iii., f. 11. Botany Bay.

121 L. RUGIFERA, Reeve, Conch. Icon., Vol. VI., pl. i., f. 1. Found at low water amongst the rocks, Watson's Bay ; Middle Harbour.

122 L. PARVULA, Gould, Gtia. Conch., p. 174. Dredged, P.J. ; Botany Bay.

123 L. FIBULA, Reeve, Conch. Icon., Vol. VI., pl. vii., f. 33, 37, 38 a, b. P.J. (Brazier).

124 L. QUADRISULCATA, d'Orb., = *L. Cumingi*, A. Adams & Angas, P.Z.S., 1863, pl. xxxvii., f. 20. Dredged outside the Heads in 20 fms., (Brazier.)

125 L. ORNATA, Reeve, Conch. Icon., Vol. VI., pl. viii., f. 48. P.J.

126 L. QUADRATA, Angas, P.Z.S., 1877, p. 176. pl. xxvi., f. 24. Shark Island.

127 L. TUMIDA, Reeve, Conch. Icon., Vol. VI., pl. v., f. 22. Dredged.

128 L. GLOBOSUM, Forskal ; = *L. ovum*, Reeve, Conch. Icon., Vol. VI., pl. v., f. 21. Dredged in Botany Bay.

129 L. ICTERICA, Reeve, Conch. Icon., Vol. VI., pl. x., f. 60 a, b. Botany Bay.

130 L. ASSIMILIS, Angas, P.Z.S., 1867, p. 910, p. xliv., f. 8. N.S.W.

131 L. RAMSAYI, Smith, C.R., Vol. XIII., p. 174, pl. xiii., f. 2, 2b. P.J., 6 – 7 fms., ("Challenger.")

132 L. JACKSONIENSIS, Smith, C.R., Vol. XIII., p. 185, pl. xiii., 11, 11b. P.J., 6 – 5 fms., ("Challenger.")

Family UNGULINIDÆ.

133 MYSIA SPHAERICULA, Deshayes, (Diplodonta); Angas, P.Z.S., 1867, p. 927. Dredged in the Parramatta River and mouth of Lane Cove River.

134 M. GLOBULOSA, A. Adams, P.Z.S., 1855, p. 226. Dredged, P.J.
135 M. ADAMSI, Angas, P.Z.S., 1867, p. 910, pl. xliv., f. 9. Dredged, P.J.
136 M. JACKSONIENSIS, Angas, P.Z.S., 1867, p. 910, pl. xliv., f. 10. Dredged in Middle Harbour.

Family ERYCINIDÆ.

137 MONTACUTA ANGASI, Smith, C.R., Vol. XIII., p. 204, pl. xii., f. 2, 2 b. P.J., 2 – 10 fms., ("Challenger.")
138 LASAEA SCALARIS, Philippi, Zeits. fur Malak., 1847, p. 72, sp. 4. In crevices of rocks at low water.
139 L. RUBRA, Mont.; Forbes & Hanley, Brit. Mollusca, Vol. II., p. 94, pl. xxxvi., f. 5, 6, 7 ; = *L. Australis*, Souverbie, Jour. de Conch., 1863, p. 287, pl. xii., f. 8. P.J.
140 KELLIA ROTUNDA, Deshayes, P.Z.S., 1855, p. 181 ; C.R., Vol. XIII., p. 202, pl. xi., f. 5, 5b. P.J.
141 K. SOLIDA, Angas, P.Z.S., 1877, p. 176, pl. xxvi., f. 25. Bottle and Glass Rocks, Vaucluse, (Brazier).
142 K. CYCLADIFORMIS, Deshayes, Trait. Elém., pl. xi., f. 6-9. P.J.
143 K. JACKSONIENSIS, Smith, Zool. "Alert," p. 105, pl. vii., f. F, F 1. P.J.
144 K. BALAUSTRINA, Gould, Otia. Conch., p. 172. P.J.
145 LEPTON ADAMSI, Angas, P.Z.S., 1867, p. 910, pl. xliv., f. 11. P.J.
146 L. CONCENTRICUM, Gould, Otia. Conch., p. 171. P.J.
147 SCINTILLA STRANGEI, Deshayes, P.Z.S., 1855, p. 181. Under stones, at low water.
148 S. ANOMALA, Deshayes, P.Z.S., 1855, p. 181. P.J.

Family CRASSATELLIDÆ.

149 CRASSATELLA FULVIDA, Angas, P.Z.S., 1871, p. 20, pl. i., f. 32. Dredged near Sow and Pigs Reef, (Brazier).

Family ASTARTIDÆ.

150 CARDITA AMABILIS, Deshayes, P.Z.S., 1852, p. 102, pl. xvii., f. 8, 9. Dredged.
151 C. EXCAVATA, Deshayes, P.Z.S., 1852, p. 100, pl. xvii., f. 1-3. P.J., 2 – 10 fms., ("Challenger.")
152 CARDITELLA ANGASI, Smith, C.R., Vol. XIII., p. 217, pl. xv., f. 9 9a. Station 163 B, off P.J., 35 fms., ("Challenger.")

Order ASIPONIDA.

Sub-Order Homomyaria.

Family TRIGONIDÆ.

153 TRIGONIA LAMARCKII, Gray, Ann. Mag. Nat. Hist., 1838; Reeve, Conch. Icon., Vol. XII., pl. i., f. 1 a, b, c. Off Ball's Head; off Green Point; Sow and Pigs Reef.
154 T. STRANGEI, A. Adams, P.Z.S., 1852, p. 91; Reeve, Conch. Icon., Vol. XII., pl. i., f. 4. Long Bay; off Green Point.

Family NUCULIDÆ.

155 NUCULA STRANGEI, A. Adams, in Thes. Conch., Vol. III., pl. ccxxix., f. 125. Dredged in Lane Cove River.
156 N. CONSOBRINA, A. Adams & Angas, P.Z.S., 1863, p. 427. Dredged in Parramatta River.
157 N. PUSILLA, Angas, P.Z.S., 1877, p. 177, pl. xxvi., f. 26. In shell sand, P.J., (Brazier.)
158 N. SIMPLEX, A. Adams, P.Z.S., 1856, p. 52. P.J., (Strange).
159 LEDA DOHRNI, Hanley, P..Z.S., 1861, p. 242. Dredged at Sow and Pigs Reef.
160 L. CRASSA, Hinds, P.Z.S., 1843, p. 99; Sow., Thes. Conch., Vol. III., pl. ccxxviii., f. 69. Dredged off P.J. Heads, 52 fms.
161 L. ENSICULA, Angas, P.Z.S., 1877, p. 177, pl. xxvi., f. 27. Off P.J. Heads, 45 fms., (Brazier.)
162 L. RAMSAYI, Smith, C.R., Vol. XIII., p. 241, pl. xx., f. 3, 3a. Station 164 A, 950 fms., ("Challenger.")

Family ARCIDÆ.

163 ARCA FASCIATA, Reeve, P.Z.S., 1844; Conch. Icon., Vol. II., pl. xv., f. 99. Under stones and in the crevices of rocks at low water.
164 A. PUSILLA, Sowerby, P.Z.S., 1833, p. 18. Common under stones, Watson's Bay and Middle Harbour.
165 A. TRAPEZIA, Deshayes, Mag. de Zoologie = *A. lobata*, Reeve, Conch. Icon., Vol. II., pl. iii., f. 3. In mud, very common in nearly all the bays in P.J.
166 A. GUBERNACULUM, Reeve, Conch. Icon., Vol. II., pl. iii., f. 14. Ball's Head, 18 fms.; P.J., 2 – 10 fms. ("Challenger.")
167 PECTUNCULUS HOLOSERICEA, Reeve, P.Z.S., 1843; Conch. Icon., Vol. I., pl. iv., f. 18; C.R., p. 251. Watson's Bay.
168 P. GRAYANA, Dunker, P.Z.S., 1856, p. 367. Outer North Head, P.J.
169 P. TENUICOSTATUS, Reeve, P.Z.S., 1843; Conch. Icon., Vol. I., pl. vi., f. 35. Dredged off Sow and Pigs Reef.
170 P. STRIATULARIS, Reeve, Conch. Icon., Vol. I., pl. vi., f. 27; C.R., p. 251. P.J., 6 - 7 fms.
171 LIMOPSIS BRAZIERI, Angas, P.Z.S., 1871, p. 21, pl. i., f. 34. Dredged at Sow and Pigs Reef, (Brazier).
172 L. CANCELLATUS, Reeve, Conch. Icon., Vol. I., pl. vii., f. 39. Outside P.J. Heads, 45 fms., (Brazier).

Sub-Order Heteromyaria.

Family MYTILIDÆ.

173 MYTILIS HIRSUTUS, Lam.; Reeve, Conch. Icon., Vol. x., pl. iii., f. 8; C.R., p. 273. P.J.
174 M. DUNKERI, Reeve, Conch. Icon., Vol. x., pl. v., f. 17. N.S.W.
175 MODIOLA AUSTRALIS, Gray, Appendix to King's Voy.; Reeve Conch. Icon., Vol. x., pl. v., f. 21.
176 M. GLABERRIMA, Dunker, P.Z.S., 1856, p. 363; Reeve, Conch. Icon., Vol. x., pl. viii., f. 48. Parramatta River.
177 M. CONFUSA, Angas, P.Z.S., 1871, p. 21, pl. i., f. 33. Lane Cove River.
178 LITHODOMUS SPLENDIDA, Dunker, P.Z.S., 1856, p. 365; Reeve Conch. Icon., Vol. x., pl. v., f. 31. Off George's Head, P.J.
179 MODIOLARIA LANIGERA, Dunker, MS.; Reeve, Conch. Icon., Vol. x., pl. v., f. 30, = *L. barbatus*, Reeve.
180 M. CUMINGIANA, Dunker; Reeve, Conch. Icon., Vol. x., pl. ix., f. 63 a-b. Lake Macquarie, (Brazier).
181 M. VARICOSA, Gould, Otia., Conch., p. 176; Zool. "Alert," p. 109, pl. vii., f. m, m P.J., very common, (Brazier).
182 M. CUNEATA, Gould, Otia. Conch., p. 176. Sow and Pigs Reef; off Green Point; Cook's Landing-place Botany, (Brazier).
183 MODIOLARCA SUBTORTA, Dunker; Reeve, Conch. Icon., Vol. x., pl. x., f. 70. Cook's River, Botany Bay.
184 SEPTIFER BILOCULARIS, Dunker; Reeve, Conch. Icno., Vol. x., pl. ix., f. 40-42. Cape Banks, (Brazier).

Family AVICULIDÆ.

185 AVICULA PULCHELLA, Reeve, Conch. Icon., Vol. x., pl. viii., f. 22. Attached to seaweed in deep water, Middle Harbour; Botany Bay.
186 A. FIMBRIATA, Reeve, Conch. Icon., Vol. x., pl. ix., f. 25. Found under stones, Middle Harbour; Watson's Bay.
187 VULSELLA TASMANICA, Reeve, Conch. Icon., Vol. xi., pl. i., f. 3. Found in Sponges, P.J.
188 MALLEUS ALBUS, Chemnitz; Reeve, Conch. Icon., Vol. xi., pl. i., f. 1. Broken Bay.
189 M. LEGUMEN, Reeve, Conch. Icon., Vol. xi., pl. i., f. 2. Shark Island; off Bottle and Glass Rocks, (Brazier.)

Family PINNIDÆ.

190 PINNA MENKEI, Hanley; Reeve, Conch. Icon., Vol. xi., pl. xviii., f. 34. Rose Bay, (Brazier).

Sub-Order Monomyaria.

Family SPONDYLIDÆ.

191 SPONDYLUS TENELLUS, Reeve, Conch. Icon., Vol. IX , pl. xviii., f. 6-7. Off Green Point, 8 fms., (Brazier).

192 PLICATULA IMBRICATA, Menke ; Reeve, Conch. Icon., Vol. IX., pl. i., f. 4. Green Point, P.J.

Family LIMIDÆ.

193 LIMA ANGULATA, Sow., Thes. Conch., Vol. I., p. 86, pl. xxii., f. 39, 40. P.J.

194 L. MULTICOSTATA, Sow., Thes. Conch., Vol. I., p. 85, pl. xxii., f. 38. Under stones.

195 L. BULLATA, Born., Test. Mus., Caesar., Vindobon., p. 110, pl. vi., f. 8 ; Sow., Thes. Conch., Vol. I., p. 84, pl. xxii., f. 32-33 ; C.R., p. 292. Under stones, Watson's Bay.

196 L. ORIENTALIS, Adams & Reeve, Voy. of "Samarang," pl. xi., f. 33 a-b. Dredged near Watson's Bay.

Family PECTINIDÆ.

197 PECTEN TEGULA, Wood, Index Test. Suppl., p. 7, pl. ii.; Reeve, Conch. Icon., Vol. VIII., pl. xxx., f. 136. Common under stones, Mossman's Bay ; Watson's Bay.

198 P. FUMATUS, Reeve, Conch. Icon., Vol. VIII., pl. vii., f. 32 ; C.R., p. 307. Lane Cove River.

199 P. BALLOTI, Bernardi, Jour. de Conch., 1861, p. 46, pl. i., f. 1. Obtained in the trawl alive, Neutral Bay, 6 fms., (Brazier).

Family ANOMIIDÆ.

200 PLACUNANOMIA IONE, Gray, Reeve, Conch. Icon., Vol. XI., pl. ii., f. 6 a, b, c. Under stones, Watson's Bay ; Taylor Bay.

Family OSTREIDÆ.

201 OSTREA EDULIS, Linn.; = *O. Angasi*, Sowerby ; Reeve, Conch. Icon., Vol. XVIII., f. 28, sp. 27. Mud Oyster, P.J.

202 O. CUCULATA, Born., Mus. Ind., Caes., pl. vi., f. 11-12 ; Reeve Conch. Icon., Vol. XVIII., pl. xvi., f. 34 a, b, c. Rock Oyster, P.J.

203 O. SUBTRIGONA, Sow.; Reeve, Conch. Icon., Vol. XVIII., pl. xviii., f. 38 a-b. Drift Oyster, P.J.

204 O. VIRESCENS, Angas, P.Z.S., 1867, p. 911, p. xliv., f. 13 ; Reeve, Conch. Icon., Vol. XVIII., pl. xi., f. 23. Watson's Bay, P.J.

205 O. MYTILOIDES, Lam. ; Reeve, Conch. Icon., Vol. XVIII., pl. xviii.,? f. 3. P.J., (Brazier.)

Class GASTEROPODA.

Sub-Class PROSOBRANCHIATA.

Order PECTINIBRANCHIATA.

Family MURICIDÆ.

206 MUREX ACANTHOPTERUS, Lam. ; Anim. Sans. Vert., Vol. VII., p. 165 ; Reeve, Conch. Icon., Vol. III., pl. xvi., f. 64 ; Tryon Man. Conch., Vol. II., p. 85, p. xl., f. 512. In shell-sand, Middle Harbour ; Watson's Bay, (Brazier).

207 M. ANGASI, Crosse, Jour. de Conch., 1863, p. 86, pl. i., f. 2 ; Tryon, l.c., p. 88, pl. xl., f. 522. Under stones, Watson's Bay, (Brazier).

208 M. PALMIFERUS, Sowerby, P.Z.S., 1840, p. 142 ; Reeve, Conch. Icon., Vol. III., Murex, pl. iv., f. 20 ; Tryon, l.c., p. 90, pl. xiv., f. 146, 147 ; pl. xxiv., f. 215 ; pl. xxv., f. 218. Common under stones, Neutral Bay and many other places.

209 M. BRAZIERI, Angas, P Z.S., p. 171, pl. xxvi., f. 3, 1877 ; Tryon, l.c., p. 132, pl. xxx., f. 289. Dredged outside P.J. Heads, 25 fms., (Brazier); in shell-sand, Middle Harbour.

210 TYPIS CLERYI, Sowerby, Thes. Conch., Vol. III., pl. cclxxxiv., f. 14 ; Tryon, Man. Conch., Vol. II., p. 137, pl. xxx., f. 296. Off P.J. Heads, 45 fms., (Brazier(.

211 T. ARCUATUS, Hinds, P.Z.S., p. 19, 1843 ; Voy. of "Sulphur," p. 10, pl. iii., f. 1-2 ; Tryon, l.c., p. 136, pl. xxx., f. 293, 297. Sow and Pigs Reef, 3 fms. ; outer North Head, 5 fms., (Brazier).

212 TROPHON CARDUELIS, Watson, Chall. Report, Vol. XV., p. 167, pl. x., f. 7. Off P.J., Station 164 B, 410 fms.

Sub-Family PURPURINÆ.

213 PURPURA SUCCINCTA, Martyn, Univ. Conch., Vol. II., pl. xlv.; Tryon, Man. Conch., Vol. II., p. 170, pl. li. Very common, Watson's Bay.

214 P. STRIATA, Martyn, Univ. Coch., pl. vii. ; Ed. Chemn., pl. iii., f. 1. Bondi ; Coogee ; Watson's Bay.

215 P. TEXTILOSA, Lam., Anim. Sans Vert., 2nd edit., Vol. x., p. 77 ; Reeve, Conch., Icon., Vol. III., pl. xii., fig. 66, 1846.

216 P. NEGLECTA, Angas, P.Z.S., p. 110, pl. xiii., f. 3. P.J.

217 P. AMYGDALA, Kiener, Icon. Coq. Viv., pl. x., f. 26 ; Tryon, Man. Conch., Vol. II., p. 179, pl. lv., f. 174. Under stones at low water, Watson's Bay ; Taylor Bay.

218 RICINULA ADELAIDENSIS, Crosse, Jour. de Conch., 1865, p. 50, pl. xi., f. 1 ; Tryon, Man. Conch., Vol. II., p. 189, pl. lix., f. 273. Jervis Bay.

219 R. MARGINIALBA, Blainville, Nouv. Ann. du Mus., pl. x., f. 6 ; Kiener, Coquille, Viv., p. 24, pl. v.,, f. 11, 11a. Common on the rocks between tide marks.

220 RAPANA (LATIAXIS) MODOSA, Ad. & Angas, P.Z.S., 1853, p. 93 ; Sowerby, Thes. Conch., Vol. v., pl. ccccxxiv., f. 17. Watson's Bay.

Family TRITONIDÆ.

221 TRITON AUSTRALE, Lam., Anim. sans Vert., Vol. VII., p. 179; Reeve, Conch. Icon., Vol. II., pls. iv.-v., f. 12a, 12b.

222 T. FUSIFORME, Kiener, Iconog., Coq. Viv., p. 36, pl. 5 f. 2 ; Tryon, Man. Conch., Vol. III., p. 11, pl. iv., f. 22. P.J.

223 T. COSTATUS, Born.; Tryon, Man. Conch., Vol. III., p. 11, pl. iii., f. 19 ; pl. iv., f. 24 ; pl. v., f. 27-29 ; pl. vi., f. 37. Common in P.J., Watson's Bay.

224 T. SPENGLERI, Chemnitz ; Reeve, Conch. Icon., Vol. II., pl. xi., f. 36 ; Tryon, l.c., p. 16, pl. ix., f. 61.

225 T. BOLTENIANUM, A. Adams, P.Z.S., 1854, p. 311. Long Bay.

226 T. DOLIARIUS, Linn.; Tryon, l.c., p. 16, pl. ix., f. 60. Coast of N.S.W., (Angas).

227 T. LABIOSUS, Wood, Index Test. Suppl., pl. v., f. 18 ; Tryon, l.c., p. 17, pl. ix., f. 64-68. P.J., (Brazier).

228 T. GEMMATUS, Reeve, Conch. Icon., Vol. II., pl. xv., f. 60 ; Tryon, l.c., p. 13, pl. vii., f. 41-44.

229 T. BRAZIER, Angas, P.Z.S., 1869, p. 46, pl. ii., f. 3. Cape Solander, Botany Bay, (Brazier).

230 T. SPECIOSA, Angas, P.Z.S., 1871, p. 13, pl. i., f. 1 ; Tryon, l.c., p. 25, pl. xiii., f. 120. In shell-sand, Middle Harbour; at low water Green Point, Watson's Bay, (Brazier).

231 T. EXARATUS, Reeve, Conch. Icon., Vol. II., pl. xiii., f. 50 a-b; Tryon, l.c., p. 22, pl. xii., f. 102, 104. P.J., (Brazier).

232 T. SUBDISTORTUS, Lam. ; Reeve, Conch. Icon., Vol. II., pl. i., f. 2 a-b. P.J.

233 RANELLA LEUCOSTOMA, Lam. ; Reeve, Conch. Icon., Vol. II., pl. i., f. 4 ; Tryon, Man. Conch., p. 42, pl. xxiii., f. 53, 54. Taylor Bay ; Farm Cove ; Watson's Bay.

234 R. VENUSTULA, Reeve, Conch. Icon., Vol. II., pl. vii., f. 37. Taken alive at Bottle and Glass Rocks, P.J., (T. Rossiter).

235 R. PUSILLA, Brod., P.Z.S., 1832, p. 194 ; Reeve, Conch. Icon., Vol. II., pl. viii., f. 44 a-b. Botany Heads.

Family FUSIDÆ.

236 FUSUS HANLEYI, Angas, P.Z.S., 1867, p. 110, pl. xiii., f. 1. Common under stones, Neutral Bay.

237 F. Paivæ, Crosse, Jour. de Conch., 1864, Vol. xii., p. 278, pl. xi., f. 7 ; Tryon, Man. Conch., Vol. ii., p. 155, pl. xxxix., f. 495. Under stones, P.J., (Angas).

238 F. pagodoides, Watson, C.R., Vol. xv., p. 197, pl. xiv., f. 3. Station 164 B, off Sydney, 410 fms.

239 F. Novæ-Hollandiæ, Reeve, Conch. Icon., Vol. iv., pl. xviii., f. 70. Cape Solander, Botany Bay, (Brazier).

240 Latirus Strangei, A. Adams, P.Z.S., 1854, p. 316. P.J. (Strange).

241 Cantharus Australis, Pease, Amer. Jour. Conch., Vol. vii., p. 2, 1872 ; Tryon, Man. Conch., Vol. iii., p. 160, pl. lxxiii., f. 269. Under stones, Watson's Bay.

242 C. unicolor, Angas, P.Z.S., p. 110, pl. xiii., f. 2, 1867 ; Tryon, Man. Conch., Vol. iii., p. 162, pl. lxxiv., f. 279. Under stones, Camp Cove, P.J., (Angas).

243 Cominella Adelaidensis, Crosse, Jour. de Conch., 1864, p. 276, pl. xi., f. 6. Middle Harbour, (Angas).

244 C. filicea, Crosse & Fischer, Jour. de Conch., 1864 p. 346, pl. iii., f. 15, 16 ; Tryon, Man. Conch., Vol. iii., p. 206, pl. lxxxi., f. 440. Bottle and Glass Rocks, (Brazier).

245 C. tritoniformis, Blainville, Nouv. Ann. du Mus., pl. x., f. 10 ; Tryon, Man. Conch., p. 156, pl. xxxix., f. 491, 488, 496. Common under stones, Watson's Bay and many other places.

246 Eburna Australis, Sowerby, Conch. Ill., f. 5 ; Tryon, Man. Conch, Vol. iii., p. 213, pl. lxxxii., f. 474 ; Reeve, Conch. Icon., Vol. v., pl. i., f. 4. Sow and Pigs Reef, (Brazier).

247 Nassaria curta, Gould, Otia. Conch., p. 125. P.J.

248 N. campyla, Watson, C.R., Vol. xv., p. 405, pl. xivi., f. 12. Station 164 B, off Sydney, 410 fms.

249 Cyllene lactea, Ad. & Angas, P.Z.S., 1863, p. 422. In shell-sand Hunter's Bay, Middle Harbour.

Family NASSIDÆ.

250 Truncaria Australis, Angas, P.Z.S., 1877, p. 172, pl. xxvi., f. 5 ; Tryon, Man. Conch., Vol. iv., p. 9, pl. v., f. 55. Dredged off Sow and Pigs Reef, P.J., (Brazier).

251 Nassa glans, var intermedia, Dunker, Voy. "Novara," Moll. p. 5, pl. ii., f. 1. Under stones, Watson's Bay, P.J.

252 N. Jacksoniana, Kiener, Mon. Bucc., pl. xix., f. 3. Common in shell-sand Middle Harbour, P.J.

253 N. pauperata, Lam., Anim. sans Vert., Vol. x., p. 183; Reeve, Conch. Icon., Vol. viii., pl. v., f. 27. Under stones, Watson's Bay, (Angas).

254 N. PAUPERA, Gould, Otia. Conch., p. 70 ; Tryon, Man. Conch. Vol. IV., p. 47, pl. XV., f. 246-250. In shell-sand Middle Harbour ; under stones, Watson's Bay.

255 N. MANGELOIDES, Reeve, Conch. Icon., Vol. VIII., pl. xxiii., f. 152 a-b ; Tryon, Man. Conch., Vol. IV., p. 26, pl. xxiii., f. 36. On mud flats at low water.

256 N. JONASI, Dunker, Phil. Abbild. Bucc., Vol. III., p. 66, pl. ii., f. 10 ; Tryon, Man. Conch., p. 26, pl. viii., f. 20-32. Middle Harbour.

257 N. REPOSTA, Gould, Otia. Conch., p. 127. P.J.

258 N CORONATA, Lam.; Reeve, Conch. Icon., Vol. VIII., pl. iii., f. 20 a, b, c ; Tryon, Man. Conch., Vol. IV., p. 23, pl. vii., f. 7-8. Living specimen obtained on the beach Manly, (Brazier).

259 N. PERITREMA, Ten.-Woods, P.L.S., N.S.W., Vol. IV., p. 21, pl. iv., f. 2. Sow and Pigs Reef ; in shell-sand Middle Harbour.

260 NERITULA LUCIDA, Adams & Angas, P.Z.S., 1863, p. 35. In shell-sand, Coogee Bay.

Family VOLUTIDÆ.

261 VOLUTA FUSIFORMIS, Swainson ; Reeve, Conch. Icon., Vol. VI., pl. iii., f. 6. Got in the trawl, off P.J. Heads.

262 V. MAGNIFICA, Chemnitz, Conch. Cab. XI., pl. clxxiv.-clxxv.; Reeve, Conch. Icon. Vol. VI., pl. i., f. 2. North Harbour ; Sow and Pigs Reef ; off Garden Island, 10 fms., (Brazier).

263 V. UNDULATA, Lam.; Sowerby, Thes. Conch., Vol. I., p. 196, pl. xlviii., fig. 29. A worn specimen found at Hunter's Bay, Middle Harbour ; Dredged off Sydney Heads, 45 fms. (Brazier.)

264 MICROVOLUTA AUSTRALIS, Angas, P.Z.S., 1877, p. 35, pl. v., f. 2. Dredged in 25 fms. outside P.J. Heads, (Brazier).

Family MITRIDÆ.

265 MITRA MELANIANA, Lam. ; Tryon, Man. Conch., Vol. IV., p. 127, pl. xxxvii., f. 118-119. Under stones, Watson's Bay.

266 M. SOLIDA, Reeve, Conch. Icon., Vol. II., pl. iii., f. 18; Tryon, Man. Conch., Vol. IV., p. 20, pl. xxxv., f. 57. Dredged off Middle Head, (Angas).

267 M. STRANGEI, Angas, P.Z.S., 1867, p. 110 ; Tryon, M.C., Vol. IV., p. 136, pl. xxxix., f. 157. Dredged in Middle Harbour.

268 M. GLABRA, Swainson, Exotic. Conch., pl. xxiv. ; Reeve, Conch. Icon., Vol. II., pl. vi., f. 43 ; Tryon, M. Conch., Vol. IV., p. 117, pl. xxxiv., f. 42. Botany Bay.

269 M. CYLINDRACEA, Reeve, P.Z.S., 1844, Conch. Icon., Vol. II., pl. xiii., sp. 97. Under stones at Double Bay, (Brazier).
270 M. RHODIA, Reeve, Conch. Icon., Vol. II., pl. xxviii., f. 225; Tryon, M. C., Vol. IV., p. 127, pl. 37, f. 114. P.J., 2-10 fms., (' Challenger.")
271 M. PACIFICA, Reeve; Sow., Thes. Conch.., pts. xxi.-xxii., pl. ccclix, f. 388. Outer North Head, 5 fms., (Brazier.)

Family MARGINELLIDÆ.

272 ERATO ANGIOSTOMA, Sowerby, Conch. Ill., p. 51, 1841; Tryon, M.C., Vol. V., p. 10, pl. iv., f. 44. Outside P.J. Heads, 45 fms., (Brazier.)
273 E. CORRUGATA, Hinds, MS., Reeve, Conch. Icon., Vol. XV., pl. iii.., f. 12; Tryon, M.C., Vol. V., p. 11, pl, iv., f. 52. Vaucluse Bay, sandy mud, 8 fms., (Brazier).
274 MARGINELLA MUSCARIA, Lam.; Reeve, Conch. Icon., Vol. XV., pl. viii., f. 29 a, b. In shell-sand, Middle Harbour.
275 M. OLIVELLA, Reeve, Conch. Icon., Vol. XV., pl. xxv., f. 140 a-b, 1865. Sow and Pigs Reef.
276 M. TRANSLUCIDA, Sow., Thes. Conch., Vol. I., p. 376, pl. lxxv., f. 62-63. Sow and Pigs Reef.
277 M. TURBINATA, Sow., Thes. Conch., Vol. I., Marginella, p. 385, pl. lxx., f. 70-71. Dredged in Middle Harbour.
278 M. INFELIX, Jousseaume, Monograph, 1875, p. 75; Reeve, Conch. Icon., pl. xxii., f. 115, = *M. simplex*. Dredged in P.J.
279 M. OVULUM, Sowerby, Thes. Conch., Vol. I., p. 140, pl. lxxviii, f. 188. Dredged in P.J.
280 M. MUSTELINA, Angas, P.Z.S., 1871, p. 14, pl. i., f. 5. Sow and Pigs Reef, P.J.
281 M. ANGASI, Brazier, MS., Crosse, Jour. de Conch., 1870, p. 304; Tryon, M.C., Vol. V., p. 45, pl. xii., f. 67. Bottle and Glass Rocks, (Brazier).
282 M. METCALFEI, Angas, P.Z.S., 1877, p. 173, pl. xxvi., f. 9. Sow and Pigs Reef, (Brazier).
283 M. STRANGEI, Angas, P.Z.S., 1877, p. 172, pl. xxvi., f. 8. P.J., (Brazier).
284 M. RUFULA, Gaskoin, MS. Reeve, Conch. Icon., Vol. XV., pl. xxvi., f. 149. Outside P.J. Heads, 45 fms., (Brazier.)
286 M. OCHRACEA, Angas, P.Z.S., 1871, p. 14, pl. i., f. 6. In shell-sand, Botany Bay.
286 M. AGAPETA, Watson, C.R., Vol. XV., p. 266, pl. xvi., f. 9. Off P.J., 45 fms., ("Challenger.")

Family OLIVIDÆ.

287 OLIVELLA EXQUISITA, Angas, P.Z.S., 1871, p. 13, pl. i., f. 2; Tryon, M. Conch., Vol. V., p. 71, pl. xvii., f. 32, 33, 41. Middle Harbour; in shell-sand, Coogee Bay, (Brazier.)

288 O. TRITICEA, Duclos, Monograph, pl. i., f. 5-6, 1835 ; Tryon, M.C., Vol. v., p. 72, pl. xvii., f. 42-44. Dredged in Watson's Bay.

289 O. LEUCOZONA, Ad. & Angas, l.c., p. 422, pl. xxxvii., f. 23 ; Tryon, M.C., Vol. v., p. 72, pl. xvii., f. 45. Dredged in P.J., 6 fms.

290 O. NYMPHA, Ad. & Angas, l.c., p. 422 ; Tryon, M.C., Vol. v., p. 72, pl. xvii., f. 46. Dredged in P.J.

291 O. BRAZIERI, Angas, P.Z.S., 1877, p. 172, pl. xxvi., fig. 6. Jervis Bay, 11 fms., (Brazier).

292 ANCILLARIA MARGINATA, Lam. ; Sowerby, Sp. Conch., pt. i., f. 40-43 ; Reeve, Conch. Icon., Vol. xv., pl. iii., f. 8 a-b ; Tryon, M.C., Vol. v., p. 96, pl. xxxix., f. 44-48. Sow and Pigs Reef.

293 A. OBLONGA, Sowerby, Sp. Conch., pt. i., p. 7, f. 38-39 ; Reeve, Conch. Icon., Vol. xv., pl. viii., f. 24 a-b. Dredged near P.J. Heads.

Family COLUMBELLIDÆ.

294 COLUMBELLA VERSICOLOR, Sowerby, P.Z.S., 1832, p. 119 ; Reeve, Conch. Icon., Vol. xi., pl. xi., f. 51 a-b ; Tryon, Vol v., p. 110, pl. xlv., f. 84-96. Under stones, Watson's Bay.

295 C. SEMICONVEXA, Lam.; Reeve, Conch. Icon., Vol. xi., pl. xviii., f. 95 a-b ; Tryon, M. Conch., p. 125, pl. xlviii., f. 87-93. Under stones Watson's Bay.

296 C. AUSTRALIS, Gaskoin, P.Z.S., 1851, p. 5 ; Reeve, Conch. Icon., Vol. xi., pl. xv., f. 78 a-b, and 188 ; Tryon, M.C., Vol. v., p. 126, pl. xlix., f. 97-98. Under stones, in company with the preceding species.

297 C. LINCOLNENSIS, Reeve, Conch. Iconn., Vol. xi., pl. xxix., f. 184 a-b ; Tryon, M.C., Vol. v., p. 120, pl. xlviii., f. 65. P.J.

298 C. TAYLORIANA, Reeve, Conch. Icon., Vol. xi., pl. xxxv., f. 225 a-b, 1859, = *C. albomaculata*, Angas, P.Z.S., 1867, p. 111, pl. xiii., f. 5 ; Tryon, M.C., Vol. v., p. 141, pl. li., f. 60-62. P.J.

299 C. PULLA, Gaskoin, P.Z.S., 1851, p. 6 ; Reeve, Conch. Icon., Vol. xi., pl. xix., f. 106 ; Tryon, M.C., Vol. v., p. 127, pl. xlix., f. 4-7. P.J.

300 C. SMITHI, Angas, P.Z.S., 1877, p. 172, pl. xxvi., f. 7, = *C. lentiginosa*, Angas, (non Hinds) P.Z.S., 1867, p. 195. Under stones at low water, P.J.

331 C. SPECIOSA, Angas, P.Z.S., 1877, p. 35, pl. v., f. 3 ; Tryon, M.C., Vol. v., p. 171, pl. lvii., f. 24. P.J., (Brazier).

302 C. EXIMIA, Reeve, Conch. Icon., Vol. XI., pl. XXXV., f. 222; Tryon, M.C., Vol. v., p. 150, pl. liii., f. 7-8. Under stones at Mossman's Bay; Bottle and Glass Rocks, (Brazier.)

303 C. ATTENUATA, Angas, P.Z.S., 1871, p. 14, pl. i., f. 4; Tryon, M.C., Vol. v., p. 151, pl. liii., f. 18. Dredged near Sow and Pigs Reef, (Brazier).

304 C. ATRATA, Gould, Otia. Conch., p. 131; Tryon, M.C., Vol. v., p. 169, pl. lvii., f. 10-17. Under stones, Mossman's Bay.

305 C. ANGASI, Brazier, P.Z.S., 1871, p. 322; Angas, P.Z.S., 1865, pl. xi., f. 9, 10 as *C interrupta*, Angas; Tryon, M. C., Vol. v., p. 128, pl. xlix., f. 11. P.J., (Brazier).

306 C. LINEOLATA, Pearse; Brazier, P.L.S., N.S.W., Vol. I., p. 231, 1877; Tryon, M.C., Vol. v., p. 138, pl. li. f. 53, = *C. dermestoides*, Angas, (non Kiener) P.Z.S., 1876, p. 195. Shark Island, P.J.

307 C. FILOSA, Angas, P.Z.S., p. 111, pl. xiii., f. 6, 1867; Tryon, M.C., Vol. v., p. 151, pl. liii., f. 17. Dredged in 5 fms., P.J., (Brazier).

Family CANCELLARIDÆ.

308 CANCELLARIA UNDULATA, Sow., Thes. Conch., Vol. II., p. 443, pl. xcii., f. 12; pl. xcv., f. 79. Middle Harbour.

309 C. ANTIQUATA, Hinds, Zoology of "Sulphur," p. 43, pl. xii., f. 17-18; Tryon, Man. Conch., Vol. VII., p. 79; pl. v., f. 88. Off Green Point, 7 fms., (Brazier).

310 C. COSTIFERA, Sow., Thes. Conch., Vol. II., p. 456, pl. xcv., f. 65, 66, 71; Tryon, Man. Conch., Vol. VII., p. 82, pl. vii., f. 12-13. Inner North Head, 8 fms., (Brazier).

Family TENEBRIDÆ.

311 TEREBRA BICOLOR, Angas, P.Z.S., 1867, p. 111, pl. xiii., f. 7; Tryon, M. C., Vol. VII., p. 25, (f. xi., only). Dredged in Middle Harbour.

312 T. ASSIMILIS, Angas, P.Z.S., 1867, p. 111, pl. xiii., f. 8; Tryon M.C., Vol. VII., p. 36, pl. xi., f. 1. Dredged.

313 T. BRAZIERI, Angas, P.Z.S., 1871, p. 16, pl. i., f. 15; Tryon, M.C., Vol. VII., p. 13, pl. xi., f. 14. Sow and Pigs Reef, 5 fms., (Brazier).

314 T. VENILIA, Ten-Woods, P L.S., N.S.W., Vol. IV., p. 23, pl. iv., f. 2, 2a; Tryon, M.C., Vol. VII., p. 21, pl. v., f. 88. Sow and Pigs Reef, (Brazier).

315 T. LAURETANÆ, Ten.-Woods, P.L.S., N.S.W., Vol. II.,p. 262. Dredged off P.J. Heads, 45 fms., (Brazier).

316 T. TRILINEATA, Adams & Angas, P.Z.S., 1863, p. 418, pl. xxxvii., f. 13; Tryon, M.C., Vol. VII., p. 38, pl. xii., f. 24. Dredged near the Heads.

317 T. ANGASI, Tryon, M.C., Vol. VII., p. 38, pl. xii., f. 25-26, 1885, = *T. pulchella*, Ads. & Angas, P.Z.S., p. 418, 1863, (non *T. pulchella*, Desh.) = *T. Brazieri*, Angas, P.Z.S., 1875, p. 390, pl. xlv., f. 5, 5a, (non *T. Brazieri*, Angas, 1871). Outside Sydney Heads, 43 fms., (Brazier); in shell-sand, Middle Harbour.

Family PLEUROTOMIDÆ.

318 PLEUROTOMA XANTHOPHÆS, Watson, C.R., Vol. XV., p. 282, pl. xxvi., f. 1. Station 163 B., 30 – 35 fms.

319 DRILLIA OWENI, Gray, MSS.; Reeve. Conch. Icon., Vol. I., pl. ix., sp. 70; Tryon, Man. Conch., Vol. VI., p. 242, pl. vii., f. 91. Sow and Pigs Reef, P.J., (Brazier).

320 D. RADULA, Hinds, Voy. of "Sulphur," p. 16, pl. v., f. 9; Tryon, M.C., Vol. VI., p. 242, pl. vii., f. 88, 89, 90. Deep water, P.J.

321 D. VEXILLUM, Reeve, P.Z.S., 1845, p. 115; Conch. Icon., Vol. I., pl. xxix., f. 264. Middle Harbour.

322 D. METCALFEI, Angas, P.Z.S., 1867, p. 113, pl. xiii., f. 16. Dredged in P.J., (Angas).

323 D. COXI, Angas, P.Z.S., 1867, p. 113, pl. xiii., f. 15. Dredged in P.J., (Brazier).

324 D. BERAUDIANA, Crosse, Jour. de Conch., 1863, p. 88, pl. i., f. 6. In shell-sand Middle Harbour; dredged.

325 D. ANGASI, Crosse, Jour. de Conch., 1863, p. 87, pl. i., f. 5; Tryon, Man. Conch., Vol. VI., p. 187, pl. ix., f. 36-37. Dredged.

326 D. TRICARINATA, Tenison-Woods, P.L.S., N.S.W., Vol. II., p. 265. Dredged off P.J. Heads, 45 fms., (Brazier).

327 D. AEMULA, Angas, P.Z.S., 1877, p. 36, pl. v., f. 9.

328 D. SPADIX, Watson, C.R., Vol. XV., p. 310, pl. xxvi., f. 6. Station 163 B, off Sydney, 35 fms., ("Challenger.")

329 BELA MITRALIS, Ad. & Angas, P.Z.S., 1863, p. 420. Dredged in P.J.

330 CLATHURELLA BRENCHLEYI, Angas, P.Z.S., 1877, p. 37, pl. v., f. 12; Tryon, Man. Conch., Vol. VI., p. 285, pl. xvii., f. 93.

331 C. RUFOZONATA, Angas, P.Z.S., 1877, p. 38, pl. v., f. 13; Tryon, M.C., Vol. VI., p. 285, pl. xvii., f. 100. Bottle and Glass Rocks, (Brazier).

332 C. PUSTULATA, Angas, P.Z.S., 1877, p. 38, pl. v., f. 14; Tryon M.C., Vol. VI., p. 285, pl. xvii., f. 85. P.J., (Brazier).

333 C. MODESTA, Angas, P.Z.S., 1877, p. 38, pl. v., f. 15; Tryon, M.C. Vol. VI., p. 285, pl. xvii., f. 92. P.J., (Brazier).

334 C. HAYESIANA, Angas, P.Z.S., 1871, p. 17, pl. i., f. 17; Tryon, M.C., Vol. VI., p. 281, pl. xv., f. 46. Dredged in Lane Cove River, (Brazier).

335 C. TENUILIRATA, Angas, P.Z.S., 1871, p. 17, pl. i., f. 18; Tryon, M.C., Vol. VI., p. 281, pl. xvi., f. 52. Dredged near Goat Island, P.J., 5 fms., (Brazier).

336 C. SCULPTILIS, Angas, P.Z.S., 1871, p. 17, pl. i., f. 19; Tryon, M.C., Vol. VI., p. 282, pl. xvi., f. 51. Dredged near Sow and Pigs Reef, (Brazier).

337 C. BICOLOR, Angas, P.Z.S., 1871, p. 18, pl. i., f. 20; Tryon, M.C. Vol. VI., p. 282, pl. xvi., f. 61. Dredged near Sow and Pigs Reef, (Brazier).

338 C. ALBOCINCTA, Angas, P.Z.S., 1871, p. 18, pl. i., f. 22; Tryon, M.C., Vol. VI., p. 285, pl. xvii., f. 84. Dredged near Sow and Pigs Reef, (Brazier).

339 C. BILINEATA, Angas, P.Z.S, 1871, p. 18, pl. i., f. 23; Tryon, M.C., Vol. VI., p. 288, pl. xvii., f. 4. Dredged near Sow and Pigs Reef, (Brazier).

340 C. BRAZIERI, Angas, P.Z.S., 1871, p. 18, pl. i., f. 21; Tryon, M.C., Vol. VI., p. 295, pl. xvii., f. 98. Dredged near Sow and Pigs Reef, (Brazier).

341 C. ZONULATA, Angas, P.Z.S., 1867, p. 113, pl. xiii., f. 17; Tryon, M.C., Vol. VI., p. 285, pl. xvii., f. 89. Dredged.

342 C. PEREGRINA, Gould, Otia. Conch., p. 134. P.J., (Brazier).

343 C. RETICOSTA, Ad. & Angas, P.Z.S., p. 420, 1863; Tryon, M.C., Vol. VI., p. 281. Dredged in Middle Harbour.

344 DAPHNELLA CREBRIPLICATA, Reeve, Conch. Icon., Vol. I., pl. XXXIV., f. 313; Tryon, M.C., Vol. VI., p. 305, pl. xxvi., f. 94. Dredged in P.J.

345 CITHARA COMPTA, Ad. & Angas, P.Z.S., 1863, p. 419, pl. XXXVII., f. 5; Tryon, M.C., Vol. VI., p. 306, pl. XXV., f. 49. In shell-sand, Middle Harbour.

346 MANGELIA PICTA, Ad. & Angas, P.Z.S., 1863, p. 419, pl. XXXVII., f. 7; Tryon, Man. Conch., Vol. VI., p. 256, pl. xxii., f. 72. Dredged in P.J.

347 M. LETOURNEUXIANA, Crosse, Jour. de Conch., 1865, p. 425, pl. xi., f. 7; Tryon, M.C.., Vol. VI., p. 286, pl. xvii., f. 86-87, ; pl. xxxiv., f. 99. Dredged in Middle Harbour.

348 M. VINCENTINA, Crosse, Jour. de Conch., 1865; Tryon, M.C., Vol. VI., p. 311, pl. xvii., f. 91. Dredged off P.J.; Middle Harbour; Cabbage Tree Bay, (Brazier).

349 M. ANOMOLA, Angas, P.Z.S., 1877, p. 34, pl. v., f. 1. (Purpura). In shell-sand, Middle Harbour; dredged outside P.J. Heads, 25 fms., (Brazier(.

350 M. JACKSONIENSIS, Angas, P.Z.S., 1877, p. 37, pl. v., f. 10; Tryon, M.C., Vol. VI., p. 311, pl. xxii., f. 73. Dredged outside P.J. Heads, 25 fms., (Brazier).

351 M. FLAVESCENS, Angas, P.Z.S., 1877, p. 37, pl. v., f. 11; Tryon, M.C., Vol. VI., p. 256, pl. xxii., f. 68. P.J. (Brazier).

Family CONIDÆ.

352 CONUS MACULATUS, Sowerby, Thes. Conch., Vol. III., pl. xiii., f. 296, (*C. maculatus*); Tryon, M.C., Vol. VI., p. 7, pl. xxii., f. 56. Watson's Bay.

353 C. JUKESI, Reeve ; Sow., Thes. Conch., Vol. III., pl. xiii., f. 297 ; Tryon, M.C., Vol. VI., pl. 22, f. 58. Watson's Bay.

354 C. GRAYI, Reeve, P.Z.S., 1843, p. 179 ; Conch. Icon., pl. xlvi., f. 258 ; Tryon, M.C., Vol. VI., p. 84, pl. xxvi., f. 59, 60. Under stones, Middle Harbour.

355 C. APLUSTRE, Reeve, Conch. Icon., Vol. I., pl. xxx., f. 170 ; Tryon, M.C., Vol. VI., p. 67, pl. xxi., f. 40-41. Cape Solander, Botany Bay.

356 C. COOKI, Brazier, P.Z.S., 1870, p. 109. Cape Solander, Botany Bay.

357 C. ROSSITERI, Brazier, P.Z.S., 1870, p. 109 ; Tryon, M.C., Vol. VI., p. 69. Cape Solander, Botany Bay.

358 C. RUTILUS, Menke, Moll. Nov. Holl., p. 57, no. 133 ; Reeve, Conch. Icon., Vol. I., pl. xlvii., f. 264 ; Tryon, M.C., Vol. VI., p. 2, pl. vi., f. 3. Cape Solander, Botany Bay,(Brazier).

359 C. ANGASI, Tryon, Man. Conch., Vol. VI., p. 62, pl. xix., f. 99, = *C. Metcalfei*, Angas, P.Z.S., 1877, p. 174, pl. xxvi., f. 13. Sow and Pigs Reef, (Brazier).

360 C. SMITHI, Angas, P.Z.S., 1877, p. 36, pl. v., f. 8 ; Tryon, M.C., Vol. VI., p. 24, pl. vi., f. 4. Cape Solander, Botany Bay, (Brazier).

361 C. SYDNEYENSIS, Sowerby, Thes. Conch., Vol. V., p. 260, pl. dx., f. 694. Sow and Pigs Reef, (Brazier).

Family STROMBIDÆ.

362 STROMBUS LUHUANUS, Linn.; Reeve, Conch. Icon., Vol. VI., pl. ix., f. 10 ; Tryon, M.C., Vol. VII., p. 122, pl. viii., f. 91, 92. Vaucluse Bay.

363 S. FLORIDUS, Lam.; Reeve, Conch. Icon., Vol. VI., pl. vii., f. 11 a-b ; Tryon, M.C., Vol. VII., p. 119, pl. vii., f. 73-76, 80, 83. P.J.

364 S. ELEGANS, Sowerby, Thes. Conch., Vol. I., pl. vii., fig. 43, 48 ; Tryon, M.C., Vol. VII., p. 119, pl. vii., f. 71. Sow and Pigs Reef, (Brazier).

365 PTEROCERA SCORPIA, Linn.; Tryon, Man. Conch., Vol. VII., p. 125, pl. ix., f. 6. Bottle and Glass Rocks, (T. Rossiter).

366 STRUTHIOLA SCUTULATA, Martyn, Univ. Conch., Vol. II., pl. lv.; Reeve, Conch. Icon., Vol. VI., pl. i., f. 2 ; Tryon, M.C., Vol. VII., p. 134, pl. xii., f. 39-40. Watson's Bay.

Family CYPRÆIDÆ.

367 CYPRÆA UMBILICATA, Sowerby, in Tankerville Catalogue, 2260 ; Tryon, M.C., Vol. VII., p. 181, pl. xii., f. 65-66. Twofold Bay, 125 fms.

368 C. VITELLUS, Linn; Lister, Conch., pl. dcxciii., f. 40; Tryon, M.C., Vol. VII., p. 182, pl. xiii., f. 72-73. Taylor Bay; Watson's Bay.

369 C. CAPUT-SERPENTIS, Linn.; Lister, Conch., pl. dcci.-dccii., f. 49, 50; Tryon, M.C., Vol. VII., p. 173, pl. vi., f. 98-100. Manly.

370 C. CAPUT-ANGUIS, Philippi, Zeitschrift fur Malakozoologie, p. 24, 1849. Shark Island, P.J., (Brazier).

371 C. ASELLUS, Linn.; Brug., Encycl. Meth., pl. ccclvi., f. 5; Tryon, Man. Conch., Vol. VII., p. 187, pl. xvi., f. 34. Long Bay; Botany Heads, and P.J.

372 C. CLANDESTINA, Linn.; Wood, Index Test., pl. iii., f. 17; Tryon, M.C., Vol. VII., p. 187, pl. xvi., f. 37-40, 61. Manly Beach; Watson's Bay.

373 C. CARNEOLA, Linn.; Lister, Conch., pl. dcxliv., f. 8; Tryon, M.C., Vol. VII., p. 166, pl. iii., f. 26-30. Long Bay.

374 C. ERRONES, Linn.; Wood, Index Test., pl. xvii., f. 39; Tryon, M.C., Vol. VII., p. 183, pl. xiv., f. 88, 89, 7. Manly Beach.

375 C. FELINA, Gmelin; Wood, Index Test., pl. xvii., f. 26; Tryon, M.C., Vol. VII., p. 169, pl. iv., f. 52-55, 59, 60. North Head Botany Bay, (Brazier); Middle Harbour, (Angas).

376 C. PIPERATA, Gray; Sow., Conch. Ill., f. 24; Tryon, M.C., Vol. VII., 189, pl. xvi., f. 49, 50, 58. P.J.

377 C. MACULA, A. Adams; Sowerby, Thes. Conch., Vol. IV., pl. xxxii., f. 379-381; Tryon, M.C., Vol. VII., p. 169, pl. iv., f. 71-72. P.J.

378 C. CAURICA, Linn.; Lister, Conch., pl. dclxxvii., f. 24; Tryon, M.C., Vol. VII., p. 171, pl. v., f. 88, 89, 90. Cape Banks, Botany Bay, (Brazier).

379 C. ANNULUS, Linn.; Encycl. Meth., pl. ccclvi., f. 7; Tryon, M.C., Vol. VII., p. 178, pl. xi., f. 57-61, pl. xxiii., f. 70-72. Vaucluse Bay, (Brazier).

380 C. FIMBRIATA, Gmelin; Wood, Index Test., pl. xvii., f. 26; Tryon, M.C., Vol. VII., p. 168, pl. v., f. 76-78. Cape Banks, (Brazier).

381 C. ISABELLA, Linn.; Sowb., Thes. Conch., Vol. IV., p. 6, pl. xxvii., f. 258; Tryon, M.C., Vol. VII., p. 165, pl. i., f. 6-7. Farm Cove, (W.)

382 C. STAPHYLEA, Linn.; Lister, Conch., pl. dccviii., f. 58; Tryon, M.C., Vol. VII., p. 196, pl. xx., f. 39-44. Off Bottle and Glass Rocks, 8 fms., also Broken Bay, (Brazier).

383 C. LUTEA, Gronovius, Zoophylacium, pl. xix., f. 17; Tryon, M.C., Vol. VII., p. 187, pl. xvi., f. 35-37. Middle Harbour (Ed. McIntosh); Lake Macquarie Beach, (Brazier).

384 C. EROSA, Linn. ; Lister, Conch., pl. dcxcii., f. 39 ; Tryon, M.C., Vol. VII., p. 192, pl. 18, f. 90, 100, 1. Broken Bay, (Brazier).

385 C. TABESCENS, Gray ; Sow., Conch. Illus., f. 14 ; Tryon, M. C., Vol. VII., p. 170, pl. v., f. 82, 83, 84. Lake Macquarie Beach, (Brazier).

386 C. SCURRA, Chemnitz, Conch. Cab. p. 103, pl. cxliv., f. 1338; Tryon, M.C., Vol. VII., p. 165, pl. ii., f. 19, 20, 21. Broken Bay, (Brazier).

387 C. FLAVEOLA, Linn. ; Sow., Conch. Illus., f. 11 ; Tryon, M. C., Vol. VII., p. 195, pl. xix., f. 20, 21, 22. Botany Bay (Brazier).

388 C. XANTHODON, Gray ; Desc., Cat., p. 10, 1832 ; Tryon, M C., Vol. VII., p. 186, pl. xv., f. 24, 25. Watson's Bay, (Angas).

389 TRIVIA AUSTRALIS, Lam.; Sow., Conch. Illus., f. 29 ; Tryon, M.C., Vol, VII., p. 206, pl. xxiii., f. 53, 54.

390 T. ORYZA, Lam., Anim. sans Vert., (Desh., Ed.) Vol. x., p. 158 ; Tryon, M.C., Vol. VII., p. 200, pl. xxi., f. 79, 82, 83; Sowerby, Thes. Conch., Vol. IV., pl. xxxv., f. 474, 476. Bottle and Glass Rocks, (Brazier).

391 T. GLOBOSA, Gray ; Sow., Conch. Illus., f. 34 ; Tryon, M.C., Vol. VII., p. 200, pl. xxi., f. 92, 93. Little Bay, (Brazier).

392 T. INSECTA, Mighels ; Sow , Thes. Conch., Vol. IV., pl. xlvi., f. 477, 478, 479 ; Tryon, M.C., Vol. VII., p. 200, pl. xxi., 84, 85. Little Bay, (Brazier).

393 OVULA ANGASI, A. Adams, MS. ; Reeve, Conch. Icon., Vol. XV., pl. x., f. 43 a-b ; Tryon, M.C., Vol. VII., p. 252, pl. iv., f. 3, 4. Watson's Bay.

394 O. HORDACEA, Lam. ; Tryon, Man. Conch., Vol. VII., p. 254, pl. v., f. 31, 38. P.J.

395 O. DENTATA, Adams & Reeve, Zool. Voy. "Samarang," p. 21, pl. vi., fig. 4 a-b. Sow and Pigs Reef, (Brazier).

Family CASSIDIDÆ.

396 CASSIS ACHATINA, Lam.; Reeve, Conch. Icon., Vol. v., pl. x., f. 28 a-b ; Tryon, M.C., Vol. VII., p. 287, pl. viii., f. 94, 98, pl. ix., f. 7. P.J.

397 C. PYRUM, Lam. ; Reeve, Conch. Icon., Vol. v., pl. xi., f. 29 a-b; Tryon, M.C., Vol. VII., p. 278, pl. viii., f. 96-98. P.J.

398 C. PILA, Reeve, Conch. Icon., Vol. v., pl. ix., f. 21 ; Tryon, M.C., Vol. VII., p. 275, pl. v., f. 75. P.J., 2–10 fms., ("Challenger.")

399 C. THOMSONI, Brazier, P.L.S., N.S.W., Vol. I., p. 8. Off P.J., 45 fms. (Brazier).

Family DOLIIDÆ.

400 Dolium variegatum, Lam., Anim. sans Vert., (Ed. Desh.) Vol. x., p. 143 ; Tryon, M.C., Vol. vii., p. 262, pl. iii., f. 13-14. Middle Harbour ; off George's Head, 17 fms., (Brazier).

Family NATICIDÆ.

401 Natica sagittata, Menke, Moll. Nov. Holl., p. 10, no. 30 ; Philippi, Conch. Cab., (ed. Kuster) p. 108, pl. xv., f. 14. Middle Harbour.

402 N. euzona, Recluz, Jour de Conch., 1851, Vol. i., p. 381, pl. xiv., f. 3. P.J., 2 – 10 fms., ("Challenger.")

403 N. plumbea, Lam.; Reeve, Conch. Icon., Vol. ix., pl. ix., f. 24 a-b ; Tryon, M.C., Vol. viii., p. 44, pl. xviii., f. 78, 79, pl. xix., f. 88. Middle Harbour ; Botany Bay.

404 N. melostoma, Swainson ; Reeve, Conch. Icon., Vol. ix., pl. xviii., f. 78 ; Tryon, M.C., Vol. viii., p. 45, pl. xviii., f. 81, pl. xix., f. 90 a-b, pl. xxi., f. 8.

405 N. Strangei, Reeve, Conch. Icon., Vol. ix., pl. xviii., f. 81 ; Tryon, M.C., Vol. viii., p. 45, pl. xviii., f. 80. P.J.

406 N. didyma, Bolton, MS. ; Philippi, Conch. Cab., (ed. Kuster) p. 6, sp. 1, pl. i., f. 4 ; Tryon, M.C., Vol. viii.. p. 33, pl. x., f. 81. P.J.

407 N. conica, Lam.; Reeve, Conch. Icon., Vol. ix., pl. xii., f. 48; Tryon, M.C, Vol. viii., p. 44, pl. 18, f. 76, 77. On the sand spit, Middle Harbour.

408 N. Incei, Philippi, P.Z.S., 1851, p. 233 ; Reeve, Conch. Icon., Vol. ix., pl. xx., f. 10 ; Tryon, M.C., Vol. viii., p. 33, pl. x., f. 87-90, pl. xi., f. 95. Manly Beach.

409 N. areolata, Recluz, P.Z.S., p. 206, 1843 ; Tryon, M.C., Vol. viii., p. 25, pl. vi., f. 23. In shell sand, Middle Harbour ; Sow and Pigs Reef.

410 N. effossa, Watson, C.R., Vol. xv., p. 439, pl. xxviii., f. 3. Off P.J., 30 – 35 fms., ("Challenger.")

411 N. filosa, Sowerby, MS. ; Reeve, Conch. Icon., Vol. ix., pl. xvii., f. 72 a-b ; Tryon, M.C.. Vol. viii., p. 51, pl. xxii., f. 22. Farm Cove, 5 fms.

412 N. Colliei. Recluz, P.Z.S., p. 206, 1843 ; Reeve, Conch. Icon., Vol. ix., pl. xxiv., f. 112 ; Tryon, M.C., Vol. viii., p. 26, pl. vii., f. 34, 30-33. Parramatta River, 7 fms., (Brazier.)

413 N. umbilicata, Quoy & Gaim., Astrolabe, Vol. ii., p. 234, pl. lxvi., f. 22, 23 ; Tryon, M.C., Vol. viii., p. 52, pl. xxii., f. 26. Dredged at Sow and Pigs Reef.

414 N. polita, Ten.-Woods, P.R. Soc., Tasmania, 1875, p. 23. Off P.J. Heads, 45 fms., (Brazier).

415 N. SUBCOSTATA, Ten.-Woods, P.L.S., N.S.W., Vol. II., p. 263. Dredged off P.J., 45 fms., (Brazier).

416 AMAUROPSIS MORCHI, Ads. & Angas, P.Z.S., 1863, p. 423. Under stones, Point Piper, (Brazier).

417 SIGARETUS ZONALIS, Quoy et G. Astrolabe, Vol. II., p. 221, pl. lxvi., (bis) f. 1-3; Tryon, M.C., Vol. VIII., p. 55, pl. xxiv., f. 57. P.J.; Botany Bay.

418 S. NITIDUS, Reeve, Conch. Icon., Vol. xv., pl. iv., f. 20 a-b; Tryon, M.C., Vol. VIII., p. 58, pl. xxv., f. 87. Dredged near Spectacle Island.

419 S. COARCTATA, Reeve, Conch. Icon., Vol. xv., pl. iv., f. 17 a-b; Tryon, M.C., Vol. VIII., p. 58, pl. xxv., f. 79. Off Fort Macquarie, P.J.

420 MARSENIA INDICA, Leach; Angas, P.Z.S., 1867, p. 199. Bottle and Glass Rocks, (Brazier); found on the beach at Coogee, (Angas).

421 VANIKORO DESHAYESIANA, Recluz; Reeve, Conch. Icon., Vol. xx., pl. ii., f. 12 a-b; Tryon, M.C., Vol. VIII., p. 68, pl. xxix., f. 69. Very rare, Watson's Bay.

422 V. GRANULOSA, Recluz, P.Z.S., 1843, p. 140; Reeve, Conch. Icon., Vol. xx., pl. ii., f. 16; Tryon, M.C., Vol. VIII., p. 68, pl. xxix., f. 74. P.J.

423 V. RECLUZIANA, Ad. & Angas, P.Z.S., 1863, p. 424; Reeve, Conch. Icon., Vol. xx., pl. iii., f. 18 a-b; Tryon, M.C., Vol. VIII., p. 70, pl. xxix., f. 87. Under stones, Camp Cove, very rare.

424 V. CUVIERIANA, Recluz, Guerin's Mag. 1845, p. 63; Tryon, Man. Conch., Vol. VIII., p. 70, pl. xxix., f. 94. P.J.

425 V. GAIMARDI, A. Adams; Reeve, Conch. Icon., Vol. xx., pl. ii., f. 9; Tryon, M.C., Vol. VIII., p. 70, pl. xxix., f. 91. Botany Bay; P.J.

Family CALYPTRAEIDÆ.

426 GALERUS PELLUCIDUS, Reeve, Conch. Icon., Vol. XI., pl. i., f. 2; Tryon, M.C., Vol. VIII., p. 120, pl. xxxiv., f. 60-61. Adhering to dead shells in deep water, P.J.

427 INFUNDIBULUM CALYPTRAEFORMIS, Lam.; Reeve, Conch. Icon., Vol. XI., pl. iii., f. 11; Tryon, M.C., p. 122, pl. xxxv., f. 96-99. P.J.

428 CALYTRAEA POROSA, Reeve, Conch. Icon., Vol. XI., pl. v., f. 20; Tryon, M.C., Vol. VIII., p. 138, pl. xliii., f. 65-66. Sow and Pigs Reef, 4 fms., (Brazier.)

429 CREPIDULA ACULEATA, Gmelin; Tryon, M.C., Vol. VIII., p. 129, pl. xxxix., f. 61-65. P.J.

430 C. UNGUIFORMIS, Lam. ; Brod., Trans. Zool. Soc., Vol. I., p. 204, pl. xxix., f. 4 ; Tryon, M.C., Vol. VIII., p. 130, pl. xxxix., f. 66-68 ; Reeve, Conch. Icon., Vol. XI., pl. i., f. 1. In a shell of *Turbo undulata*, associated with an hermit crab. Watson's Bay, March, 1888. (W.)

431 CAPULUS VIOLACEUS, Angas, P.Z.S., 1867, p. 114, pl. xiii., f. 23; Tryon, M.C., Vol. VIII., p. 132, pl. xxxix., f. 81. Found under a stone at low water, Long Bay, (Angas).

432 HIPPONYX ANTIQUATUS, Linn., 12th edit., p. 1259, no. 762, = *H. foliacea*, Quoy & Gaimard, Astrolabe, Vol. III., p. 439, pl. lxxii., f. 41-45 ; Tryon, M.C., Vol. VIII., p. 134, pl. xl., f. 93-99. Under rocks and stones, P.J.

433 H. SUBRUFUS, Sow., P.Z.S., 1835, p. 5 ; Thes. Conch., Vol. I., p. 370, pl. lxxiii., f. 21, 22, 23 ; Tryon, M.C., Vol. VIII., p. 134, pl. xl., f. 1. P.J.

Family SOLARIIDÆ.

434 SOLARIUM LAEVIGATUM, Lam.; Tryon, Man. Conch , Vol. IX., p. 12, pl. iv., f. 43-44. Dredged at Sow and Pigs Reef.

435 S. REEVEI, Hanley ; Sow., Thes. Conch., Vol. II., sp. 16, pl. i., f. 9, 10 ; Tryon, M.C., Vol. IX., p. 12, pl. iv., f. 45-46. P.J.

436 S. PERSPECTIVINCULUS, Chemnitz ; Sow., Thes. Conch., Vol. II., p. 237, pl. v., fig. 60-61-62. Botany Heads.

437 S. STRAMINEA, Chem., Conch. Cab., Vol. v., p. 172, f. 1699; Tryon, M.C., Vol. IX., p. 19, pl. vi., f. 93-96.

438 S. LUTEUM, Lam. ; Sow., Thes. Conch. Vol. II., sp. 25, pl. iv., f. 52, 54 ; Tryon, M.C., Vol. IX., p. 19, pl. v.. f. 71-72. Botany Heads ; P.J.

439 S. HYBRIDUM, Lam. Encycl. Method., pl. ccccxlvi., f. 5-6 ; Tryon, M.C., Vol. IX., p. 14, pl. v., f. 59-62. Coogee Bay, under stones, (Brazier); in shell sand Middle Harbour.

440 S. ROSULENTUM, Watson, C.R., Vol. xv., p. 136, pl. viii., f. 12; Tryon, M.C., Vol. IX., p. 23, pl. vi., f. 34. P.J., 2–10 fms., (" Challenger.")

441 ADEORBIS ANGASI, A. Adams, P.Z.S., 1863, p. 424, pl. xxxvii., f. 11-12 ; Tryon, Man. Conch., Vol. x., p. 85, pl. xxx., f. 98-99. Coogee Bay, (Angas) ; Bottle and Glass Rocks, (Brazier).

Family SCALARIDÆ.

442 SCALARIA PRETIOSA, Lam. ; Sowerby, Thes. Conch., Vol. I., pl. xxxii., f. 17 ; Tryon, Man. Conch., Vol. IX., p. 54, pl. xi., f. 31. In shell sand, Middle Harbour.

443 S. RUBRO-LINEATA, Sowb., Thes. Conch., Vol. I., pl. xxxiv., f. 83-84 ; Tryon, M.C., Vol. IX., p. 60, pl. xii., f. 82-83. Dredged in deep water P.J.

444 S. PHILIPPINARUM, Sow., P.Z.S., 1844; Thes. Conch., Vol. I., pl. xxxii., f. 1-3; Tryon, M.C., Vol. IX., p. 66, pl. xiii., f. 18-19. Dredged in P.J.

445 S. JUKESIANA, Forbes, Append. Voy. of "Rattlesnake," p. 383, pl. iii., f. 7; Tryon, M.C., Vol. IX., p. 66, pl. xiv., f. 20. Dredged.

446 S. AUSTRALIS, Lam.; Sow., Thes. Conch., Vol. I., pl. xxxv., f. 135; Tryon, M.C., Vol. IX., p. 76, pl. xvi., f. 90. Under stones, Farm Cove; Manly Beach.

447 S. ACULEATA, Sowerby, P.Z.S., 1844, p. 12; Thes. Conch., Vol. I., pt. 4, p. 86, pl. xxxii., f. 35 37; Tryon, M.C., Vol. IX., p. 63, pl. xiii., f. 90-91. P.J., 2-10 fms. ("Challenger.")

448 S. HYALINA, Sow., Thes. Conch., Vol. I., p. 85, pl. xxxii., f. 21-22; Tryon, M.C., Vol. IX., p. 57, pl. xi., f. 53-54. Sow and Pigs Reef, 5 fms., (Brazier).

449 S. GRANULOSA, Quoy; Sowerby, Thes. Conch., Vol. I., p. 104, pl. xxxv., f. 144; Tryon, M.C., Vol. IX., p. 80, pl. xvi., f. 11. Inner North Head, 12 fms., (Brazier).

450 S. PERPLEXA, Pease, Proc. Zool. Soc., 1860; Donum Bismarkianum, p. 24, pl. i., f. 19; Tryon, M.C., Vol. IX., p. 74, pl. xv., f. 83. P.J.; Broken Bay.

451 S. PYRAMIDALIS, Sow., Thes. Conch., Vol. I., p. 85, pl. xxxii., f. 4; Tryon, M.C., Vol. IX., p. 62, pl. xiii., f. 89. Inner North Head, 12 fms., (Brazier).

452 S. MORCHI, Angas, P.Z.S., 1871, p. 15, pl. i., f. 17; Tryon, M.C., Vol. IX., p. 82, pl. xvi., f. 7. Dredged near Sow and Pigs Reef, (Brazier).

453 S. BICARINATA, Sowb., Thes. Conch., Vol. I., p. 104, pl. xxxv., f. 113, 114; Tryon, M.C., Vol. IX., p. 82, pl. xvii., f. 28. Ball's Head, 18 fms., (Brazier).

454 S. DELICATULA, Crosse et Fischer, Jour. de Conch., 1864, p. 347, pl. iii., f. 11-12; Tryon, M.C., Vol. IX., p. 69, pl. xiv., f. 39. Sow and Pigs Reef, 5 fms. (Brazier).

455 CROSSEIA CONCINNA, Angas, P.Z.S., 1867, p. 911, pl. xliv., f. 14; Tryon, M.C., Vol. IX., p. 85, pl. xvii., f. 45. Sow and Pigs Reef, (Brazier); in shell sand, Middle Harbour.

Family IANTHINIDÆ.

456 IANTHINA FRAGILIS, Lam.; Reeve, Conch. Icon., Vol. XI., pl. ii. f. 6 a-b; Tryon, M.C., Vol. IX., p. 36, pl. ix., f. 94-5, pl. x., f. 6-10.

457 I. VIOLACEA, Bolton, Virg. p. 93, no. 953, 1798, = *I. casta*, Reeve, Conch., Icon., Vol. XI., pl. i., f. 4 a-b; Tryon, M.C., Vol. IX., p. 36, pl. ix., f. 95.

458 I. CAERULATA, Reeve, Conch. Icon., Vol. XI., pl. ii., f. 7, 7a; Tryon, M.C., Vol. IX., p. 36, pl. ix., f. 96. Bondi Bay.

459 I. GLOBOSA, Swainson, var. DECOLLATA, Carpenter; Reeve, Conch. Icon., pl. iv., f. 19 a-b; Tryon, M.C., Vol. IX., pl. x., f. 13. Coogee Bay; Bondi Bay.

460 I. EXIGUA, Lam.; Reeve, Conch. Icon., Vol. XI., pl. v., f. 21 a-b; Tryon, M.C., Vol. IX., p. 37, pl. x., f. 17-22. Coogee Bay; Bondi Bay.

Family TURRITELLIDÆ.

461 TURRITELLA INCISA, Reeve, Conch. Icon., Vol. v., pl. xi., f. 65; Tryon, M.C., Vol. VIII., p. 203, pl. 63, f. 88. Dredged in deep water. P.J., (Strange).

462 T. SOPHIE, Brazier, P.L.S., N.S.W., Vol. VIII., p. 227, = *T. incisa*, Tenison-Woods, (non Reeve) P.L.S., N.S.W., Vol. II., p. 262, 1877. Off P.J., 45 fms., (Brazier).

463 T. GUNNII, Reeve, Conch. Icon., Vol. v., pl. ix., fig. 45; Tryon, M.C., Vol. VIII., p. 203, pl. lxiii., f. 86, 87. Off P.J., 45 fms., (Brazier).

464 T. SINUATA, Reeve, Conch. Icon., Vol. v., pl. xi., f. 62; Tryon, M.C., Vol. VIII., p. 200, pl. lxi., f. 60. Dredged in Middle Harbour and Watson's Bay.

465 T. PARVA, Angas, P.Z.S., 1877, p. 174, pl. xxvi., f. 17; Tryon, M.C., Vol. VIII., p. 198, pl. lix., f. 41. Sow and Pigs Reef, (Brazier).

466 T. CIRCINATA, A. Adams, Ann. & Mag. N. Hist., 1860. Sow and Pigs Reef and Ball's Head.

467 T. SPINA, Crosse & Fischer, Jour. de Conch., 1864, p. 347; 1865, p. 44, pl. iii., f. 13-14. Sow and Pigs Reef, (Brazier).

468 T. BRAZIERI, Angas, P.Z.S., 1877, p. 35, pl. v., f. 5. P.J., (Brazier).

469 T. TORCULARIS, Ten.-Woods, P.L.S., N.S.W., Vol. II., p. 263. Off P.J., Heads, 45 fms., (Brazier).

470 MATHILDA ELEGANTULA, Angas, P.Z.S., 1871, p. 15, pl. i., f. 8; Tryon, M.C., Vol. VIII., p. 210, pl. lxv., f. 37. Dredged in Lane Cove River, (Brazier).

Family VERMETIDÆ.

471 VERMETUS DECUSSATUS, Gmelin; Tryon, Man. Conch., Vol. VIII., p. 181, pl. liii., f. 71-72. P.J.

472 V. QUOYI, A. Adams; Tryon, Man. Conch., Vol. VIII., p. 176, pl. li., f. 46. P.J.

473 SILIQUARIA LACTEA, Lam.; Tryon, M.C., Vol. VIII., p. 191, pl. lviii., f. 26. P.J.

Family CAECIDÆ.

474 CAECUM SP. Cabbage Tree Bay; outer Manly Beach in shell-sand.

Family EULIMIDÆ.

475 EULIMA PROXIMA, Sow., Conch. Icon., Vol. xv., pl. vi., f. 48; Tryon, M.C., Vol. VIII., p. 269, pl. lxviii., f. 11. Dredged in P.J.

476 E. ACICULA, Gould ; Tryon, M.C., Vol. VIII., p. 282, pl. lxx., fig. 92. P.J.

477 E. DISSIMILIS, Watson, C.R., Vol. xv., p. 522, pl. xxxvii., f. 5. P.J. 2 – 10 fms., ("Challenger.")

478 E. GUENTHERI, Angas, P.Z.S., 1877, p. 35, pl. v., f. 6. N.S.W.

479 LEIOSTRACA MUCRONATA, Sow., Conch. Icon., Vol. xv., pl. vi., f. 42; Tryon, M.C., Vol. VIII., p. 284, pl. lxx., f. 5. Dredged in P.J.

480 L. ACUTISSIMA, Sow., Conch. Icon., Vol. xv., pl. ii., f. 10 a-b ; Tryon, M.C., Vol. VIII., p. 281, pl. lxx., f. 89-90. P.J.

481 L. LESBIA, Angas, P.Z.S., 1871, p. 16, pl. i., f. 14. Dredged at Sow and Pigs Reef, (Brazier).

482 STYLIFER BRAZIERI, Angas, P.Z.S., 1877, p. 173, pl. xxvi., f. 12 ; Tryon, M.C., Vol. VIII., p. 291, pl. lxxi., f. 47. Sow and Pigs Reef, parasitic on a Starfish (*Anthenea acuta*, Perrier), (Brazier).

Family TURBONILLIDÆ.

483 TURBONILLA FESTIVA, Angas, P.Z.S., 1877, p. 35, pl. v., f. 4 ; Tryon, M.C., Vol. VIII., p. 334, pl. lxxvi. f. 45. Dredged in deep water, (Brazier).

484 T. MARIÆ, Ten.-Woods, P.R.S., Tasm., 1875, p. 144 ; Tryon, M.C., Vol. VIII., p. 334, pl. lxxvi., f. 42. Botany Heads.

485 T. HOFMANI, Angas, P.Z.S., 1867, p. 112, pl. xiii., f. 9 ; Tryon, M.C., Vol. VIII., p. 334, pl. lxxvi., f. 41. Dredged in P.J.

486 EULIMELLA AURANTICA, Angas, P.Z.S., 1867 p. 112, pl. xiii., f. 14 ; Tryon, M.C., Vol. VIII., p. 313, pl. lxxiv., f. 40. P.J.

487 ODOSTOMIA SIMPLEX, Angas, P.Z.S., 1871, p. 15, pl. i., f. 10. (*T. nitida*, see P.Z.S., 1877, p. 183) ; Tryon, M.C., Vol. VIII., p. 363, pl. lxxix., f. 71. Dredged near Sow and Pigs Reef, (Brazier.)

488 O. CASTA, A. Adams, P.Z.S., 1851, p. 223 ; Sow., Thes. Conch., Vol. II., p. 818, pl. clxxii, f. 22.

489 O. SCALPIDENS, Watson, C.R., Vol. xv., p. 489, pl. xxxii., f. 1. P.J., 2 – 10 fms., ("Challenger.")

490 O. LÆVIS, Angas, P.Z.S., 1867, p. 112, pl. xiii., f. 10 ; Tryon, M. Conch., Vol. VIII., p. 362, pl. lxxix., f. 67. Dredged in deep water, P.J.

491 O. ANGASI, Tryon, M.C., Vol. VIII., p. 362, pl. lxxix., f. 68, = *O. lactea*, Angas, P.Z.S., p. 112, pl. xiii., f. 11, 1867. Dredged in deep water, P.J., (Angas).

492 O. Pascœi, Angas, P.Z.S., 1867, p. 112, pl. xiii., f. 12; Tryon, M.C., Vol. viii., p. 362, pl. lxxix., f. 70. Dredged in deep water, P.J., (Angas).

493 O. Kreffti, Angas, P.Z.S., 1867, p. 112, pl. xiii., f. 13; Tryon, M.C., Vol. viii., p. 362, pl. lxxix., f. 66. Dredged in deep water, P.J., (Angas).

494 Oscilla ligata, Angas, P.Z.S., 1877, p. 173, pl. xxvi., f. 11; Tryon, M.C., Vol. viii., p. 310, pl. lxxiv., f. 29. Botany Bay, (Brazier).

495 Syrnola tincta, Angas, P.Z.S., 1871, p. 15, pl. i., f. 11; Tryon, M.C., Vol. viii., p. 308, pl. lxxiii., f. 24, Dredged off Sow and Pigs Reef, (Brazier.)

Family PYRAMIDELLIDÆ.

496 Pyramidella jucunda, Angas, P.Z.S., 1877, p. 173, pl. xxvi., f. 10; Tryon, M.C., Vol. viii., pl. lxxiii., f. 92. Dredged in deep water, P.J., (Brazier.)

Family LITTORINIDÆ.

497 Littorina scabra, Linn.; Tryon, Man. Conch., Vol. ix., p. 243, pl. xlii., f. 18-20. Mangrove Swamps, Parramatta River.

498 L. badia, Ten.-Woods, P.L.S., N.S.W., Vol. ii., p. 264. Dredged off P.J. Heads, 45 fms. (Brazier).

499 L. Mauritiana, Lam., Anim. sans Vert., Vol. ii., p. 244; Tryon, M.C., Vol. ix., p. 247, pl. xliv., f. 71, 70-75. Very common about high water mark, P.J.

500 Tectarius nodulosus, Gmelin, = *T. pyramidalis*, Quoy & Gaim., Astrolabe, Vol. ii., p. 482, pl. xxxiii., f. 12-15; Tryon, M.C., Vol. ix., p. 258, pl. xlvii., pl. xlviii. Common on rocks about high water-mark, P.J.

501 Risella lutea, Quoy & Gaim., Astrolabe, Vol. iii., p. 271, pl. lxii., f. 8-11; Tryon M.C., Vol. ix., p. 262, pl. xlix., f. 3, P.J.

502 R. plana, Quoy & Gaim., l.c., p. 274, pl. lxii., f. 13-14; Tryon, Man. Conch., Vol. ix., p. 262, pl. xlix., f. 10, 11, 12. P.J.

503 R. nana, Quoy & Gaim., l.c., p. 273, pl. lxii., f. 5-7; Tryon, M.C., Vol. ix., p. 262, pl. xlix., f. 13, 14, 99. P.J.

504 Fossarus patula, A. Adams & Angas, P.Z.S., 1863, p. 424, pl. xxxvii., f. 9-10; Tryon, M.C., Vol. ix., p. 276, pl. li., f. 2 a. Under stones, Watson's Bay.

505 F. Brazieri, Angas, P.Z.S., 1871, p. 18, pl. i., f. 24; Tryon, M.C., Vol. ix., p. 275, pl. lii., f. 17. Under stones, Shark Island, (Brazier).

Family PLANAXIDÆ.

506 PLANAXIS MOLLIS, Sowerby, Genera of Shells, Vol. II., pl. ccix., f. 2 ; Tryon, M.C., Vol. IX., p. 279, pl. lii., f. 34, 35, 29. Under stones, Coogee Bay ; Bondi Bay.

507 ALABA PHASIANELLA, Angas, P.Z.S., 1867, p. 113, pl. xiii., f. 18 ; Tryon, M.C., Vol. IX., p. 283, pl. liii., f. 84. Dredged in P.J.

Family CERITHIIDÆ.

508 CERITHIUM RHODOSTOMA, A. Adams ; Sow., Thes. Conch., Vol. II., pl. clxxx., f. 103 ; Tryon, M.C., Vol. IX., p. 14 1 pl. xxvii., f. 20. Sow and Pigs Reef, (Brazier).

509 C. MORUS, Lam. ; Kiener, Coquille, Viv., p. 52. pl. xv., f. 1 ; Tryon, M.C., Vol. IX., p. 133, pl. xxiv., f. 32, 33, 29, 31, 35, 37, 40-41, 43, 45 ; pl. xxv., f. 55, 57, 58, 65, 66. P.J.

510 C. SEROTINUM, A. Adams ; Thes. Conch., Vol. II., p. 861, f. 102 ; Tryon, M.C., Vol. IX., p. 141, pl. xxvii., f. 19. P.J.

511 CERITHIOPSIS ANGASI, O. Semper, Cat. Mus. Godeffroy 5, p. 108, no. 6882, 1874 ; Tryon, M.C., Vol. IX., p. 172, pl. xxxvi., f. 49. Sow and Pigs Reef, (Brazier).

512 C. PURPUREA, Angas, P.Z.S., 1877, p. 36, pl. v., f. 7 ; Tryon, M.C., Vol. IX., p. 175, pl. xxxvi., f. 67. Dredged off Shark Island, (Brazier).

513 C. CROCEA, Angas, P.Z.S., 1871, p. 16, pl. i., f. 13 ; Tryon, M.C., Vol. IX., p. 175. pl. xxxvi., f. 66. Dredged off Camp Cove, (Brazier).

514 BITTIUM GRANARIUM, Kiener, Coquille Viv., p. 72, pl. xix., f. 3 ; Tryon, M.C., Vol. IX., p. 155, pl. xxx., f. 98. Common under stones, P.J.

515 B. TURRITELLIFORMIS, Angas, P.Z.S., 1877, p. 174, pl. xxvi., f. 14 ; Tryon, M.C., Vol. IX., p. 154, pl. xxx., f. 13. P.J., (Brazier.)

516 B. LACERTINUM, Gould, Otia. Conch., p. 141 ; Tryon, M.C., Vol. IX., p. 155, pl. xxx., f. 100. P.J.

517 C. (BITTIUM) CYLINDRICUM, Watson, C.R., Vol. XV., p. 550, pl. xxxix., f. 5 ; Tryon, M.C., Vol. IX., p. 156, pl. xxx., f. 18. P.J., 2 – 10 fms., ("Challenger.")

518 C. (BITTIUM) FURVUM, Wat., C.R., p. 556, pl. xxxviii., f. 5 ; Tryon, M.C., Vol. IX., p. 157, pl. xxxi., f. 27. P.J., 2 – 10 fms., ("Challenger.")

519 TRIFORIS MACULOSUS, A. Adams ? Angas, P.Z.S., 1877, p. 184. P.J., (Brazier).

520 T. GRANULATUS, Adams & Reeve, Voy. of "Samarang," p. 46, pl. xi., f. 33 ; Tryon, M.C., Vol. IX., p. 183, pl. xxxviii., f. 19.

521 T. NIGROFUSCUS, A. Adams, P.Z.S., 1851, p. 278. Under stones at low water, P.J.

522 T. LABIATUS, A. Adams, P.Z.S., 1851, p. 279. Under stones at low water, P.J.

523 POTAMIDES EBENINUM, Brug., Encyl. Meth., pl. ccccxlii., f. 1 a-b ; Tryon, M.C., Vol. IX., p. 158, pl. xxxi., f. 31. Very common on mud flats, P.J.

524 P. (LAMPANIA) AUSTRALIS, Quoy & Gaim., Astrolabe, Vol. III., p. 131, pl. lv., f. 7 ; Tryon, M.C., Vol. IX., p. 166, pl. xxxiv., f. 99, 100. Common in muddy places, P.J.

Family RISSOIDÆ.

525 RISSOINA VARIEGATA, Angas, P.Z.S., 1867, p. 113, pl. xiii., f. 19 ; Tryon, 'M.C., Vol. IX., p. 370, pl. liii., f. 43-46. Dredged in deep water, P.J.

526 R. ANGASI, Pease, = *R. turricula*, Angas, P.Z.S., p. 114, pl. xiii., f. 20, 1867. Dredged in deep water, P.J.

527 R. CINCTA, Angas, P.Z.S., 1867, p. 114, pl. xiii., f. 22; Tryon, M.C., Vol. IX., p. 380, pl. lxviii., f. 8. Dredged in deep water, P.J.

528 R. FASCIATA, A. Adams, P.Z.S., 1851 ; Tryon, M.C., Vol. IX., p. 380, pl. lxviii., f. 7. Dredged in deep water, P.J.

529 R. CRETACEA, Ten.-Woods, P.L.S., N.S.W., Vol. II., p. 265, Dredged off P.J. Heads, 45 fms., (Brazier).

530 R. CYLINDRACEA, Ten.-Woods, l.c., p. 266. Dredged off P.J. Heads, 45 fms., (Brazier).

531 R. HANLEYI, Schwartz ; Frauenfeld, Reise d. Novara, Band II., Moll., p. 10 ; Tryon, Manual Conch., Vol. IX., p. 370, pl. lv., f. 21. P.J.

532 R. CRASSA, Angas, P.Z.S., 1871, pl. i., f. 16 ; Tryon, M.C., Vol. IX., p. 378, pl. lv., f. 20, pl. lxviii., f. 6. Bottle and Glass Rocks, (Brazier).

533 R. FLEXUOSA, Gould, Otia. Conch. P.J.

534 RISSOIA FRAUENFELDI, Schwartz, Voy. Novara, Moll. Bd. II., p. 10, pl. ii., f. 13 ; Tryon, Man. Conch., Vol. IX., p. 340, pl. 68, f. 86. P.J.

535 R. OLIVACEA, Dunker ; Frauenfeld, Voy. Novara, Moll. p. 11, pl. ii., f. 14 ; Tryon, Man. Conch., Vol. IX., p. 339, pl. lxvi., f. 43. Manly Beach ; Botany Bay ; P.J.

536 R. SALEBROSA, Frauenfeld, Voy. Novara, Moll., p. 11, pl. ii., f. 15 ; Tryon, Man. Conch., Vol. IX., p. 327, pl. lxvi., f. 44. P.J.

537 R. NOVARIENSIS, Frauenf., Voy. Novara, Moll., p. 11, pl. ii., f. 16 ; Tryon, Man. Conch., Vol. IX., p. 329, pl. lxvi., f. 45. P.J., (Brazier).

538 R. FLAMMEA, Frauenf., Voy. Novara, Moll., p. 12, pl. ii., f. 18 ; Tryon, Man. Conch., Vol. IX., p. 339, pl. lxiii., f. 64. Botany Bay.

539 R. INCIDATA, Frauenf., Voy. Novara, Moll., p. 12, pl. ii., f. 19; Tryon, Man. Conch., Vol. IX., p. 339, pl. lxiii., f. 65. Botany Bay.

540 R. CONTABULATA, Frauenf., Voy. Novara, Moll., p. 13, pl. ii., f. 20 a-b; Tryon, Man. Conch., Vol. IX., p. 341, pl. lxix., f. 50, 51. Botany Bay.

541 R. ATROPURPUREA, Frauenf., Voy. Novara, Moll., p. 13, pl. ii., f. 21; Tryon, Man. Conch., Vol. IX., p. 355, pl. lxxi., f. 1. Bondi; Botany Bay; P.J.

542 R. NITENS, Frauenf., Voy. Novara, Moll., p. 13, pl. ii., f. 22; Tryon, Man. Conch., Vol. IX., p. 355, pl. vii., f. 100. Botany Bay.

543 R. ELEGANS, Angas, P.Z.S., 1877, p. 174, pl. xxvi., f. 15; Tryon, M.C., Vol. IX., p. 364, pl. lxvi., f. 46. P.J.,(Brazier).

544 R. GRACILIS, Angas, P.Z.S., 1877, p. 174, pl. xxvi., f. 16; Tryon, M.C., Vol. IX., p. 264, pl. lxvi., f. 47. P.J.,(Brazier).

545 R. SCROBICULATA, Watson, C.R., p. 611, pl. xlvi., f. 4; Tryon, M.C., Vol. IX., p. 339, pl. lxvii., f. 80. P.J., 2-10 fms., ("Challenger.")

546 R. BADIA, Watson, C.R., Vol. XV., p. 612, pl. xlvi., f. 3, pl. lxvii., f. 81; Tryon, M.C., Vol. IX., p. 339, pl. lxvii., f. 81. P.J., 2-10 fms., ("Challenger.")

547 R. AUSTRALIÆ, Frauenf., Reise d. Novara, Moll., p. 14, pl. II., f. 23; Tryon, Man. Conch., Vol. IX., p. 344, pl. lxxi., f. 81. P.J.

Order SCUTIBRANCHIATA.

Sub-Order Podopthalma.

Family NERITIDÆ.

548 NERITA ATRATA, Reeve, Conch. Icon., Vol. IX., pl. iv., f. 16; (non *N. atrata*, Chemn.) = *N. melanotragus*, Smith, Zool. "Alert," p. 69; Tryon, Man. Conch., Vol. X., p. 26, pl. viii., f. 40. Abundant between high and low water-mark, P.J.

549 N. ALBICILLA, Linn.; Quoy & Gaim., Astrolabe, Vol. III., pl. lxv., f. 17-18; Tryon, Man. Conch., Vol. X., p. 19, pl. ii., f. 21-26. Rose Bay, P.J., (Brazier).

550 NERITINA RANGIANA, Recluz, Rev. Zool., 1841, p. 339; Reeve Conch. Icon., Vol. IX., pl. xxxi., f. 142 a-b; Tryon, Man. Conch., Vol. X., p. 55, pl. xviii., f. 89-92. Sow and Pigs Reef, (Brazier).

551 N. SOUVERBIANA, Montrouzier, Jour. de Conch., 1863, Vol. XI., pp. 75-175, pl. v., f. 5; = *N. pulcherrima*, Angas, P. Z.S., 1871, p. 19, pl. i., f. 25. Sow and Pigs Reef, 5 fms., (Brazier).

Family LIOTIIDÆ.

552 LIOTIA SPECIOSA, Angas, P.Z.S., 1871, p. 19, pl. i., f. 26; Tryon, Man. Conch., Vol. x., p. 110, pl. xxxvi., f. 5, 7, 8. Double Bay, under stones, (Brazier).

553 L. CLATHRATA, Reeve, Conch. Icon., (Delphinula) Vol. I., pl. v., f. 21 a.b; Tryon, Man. Conch., Vol. x., p. 109, pl. xxxvi., f. 95. Sow and Pigs Reef, (Brazier).

554 L. ANGASI, Crosse, Jour. de Conch., 1864, p. 343, pl. xiii., f. 4 a; Tryon, Man. Conch., Vol. x., p. 110, pl. xxxvi., f. 4. Dredged in P.J.

555 CYCLOSTREMA AUSTRALIS, Angas, P.Z.S., 1877, p. 38, pl. v., f. 16; Tryon, Man. Conch., Vol. x., p. 107, pl. xxxv., f. 83-84. In shell sand, Botany Bay, (Brazier).

Family ROTELLIDÆ.

556 ROTELLA BRAZIERI, Angas, P.Z.S., 1877, p. 39, pl. v., f. 17. Sow and Pigs Reef, (Brazier).

Family PHASIANELLIDÆ.

557 PHASIANELLA VENTRICOSA, Quoy & Gaim., Astrolabe, Vol. III., p. 237, pl. lix., f. 8-9; Reeve, Conch. Icon., Vol. XIII., pl. iii., f. 6 a and b; Tryon, Man. Conch., Vol. x., p. 165, pl. xxxviii., f. 39-43. In shell-sand, Middle Harbour; Long Bay.

558 P. ROSEA, Angas, P.Z.S., 1867, p. 114, pl. xiii., f. 24; Tryon, Man. Conch., Vol. x., p. 174, pl. xxxix., f. 92. In shell-sand, Coogee Bay.

559 P. VIRGO, Angas, P.Z.S., 1867, p. 115, pl. xiii., f. 25; Tryon, Man. Conch., Vol. x., p. 181, pl. xxxix., f. 93. In shell-sand, Coogee Bay.

560 P. KOCHII, Philippi; Krauss, Moll. Sud. Afric., p. 104, pl. vi., f. 4; Tryon, Man. Conch. Vol. x., p. 170, pl. xxxvii., f. 37-38; Reeve, Conch. Icon., Vol. XIII., pl. v., f. 13 a-b. Dredged in deep water, P.J.

561 P. PICTURATUS, H. & A. Adams, Ann. & Mag. N.H., 3 Ser., Vol. XI., 1863, p. 19; Smith, Zool. "Alert," p. 75, pl. vi., f. C. P.J.

Family TURBINIDÆ.

562 TURBO IMPERIALIS, Gmelin; Reeve, Conch. Icon., Vol. IV., pl. ii., f. 6; Tryon, Man. Conch., Vol. x., p. 192, pl. xliii., f. 58, pl lxii., f. 8. A living specimen obtained amongst the rocks, Watson's Bay, (Dr. J. C. Cox).

563 T. UNDULATA, Chemnitz, Conch. Cab., Vol. x., pl. clxix., f. 1640, 1641; Reeve, Conch. Icon., Vol. IV., pl. i., f. 3; Tryon, Man. Conch., Vol. x., p. 116, pl. xlii., f. 40. Very common, Watson's Bay; Coogee Bay; Botany.

564 T. STRAMINEA, Martyn, Univ. Conch., Vol. I., f. 71 = *T. torquatus*, Gmelin; Reeve, Conch., Icon., Vol. IV., pl. iv., f. 26 a-b; Tryon, Man. Conch., Vol. x., p. 212, pl. xlii., f. 38, pl. xlix., f. 46. Common amongst the rocks at low water, near the Heads.

565 T. EXQUISITUS, Angas, P.Z.S., 1877, p. 175, pl. xxvi., f. 18; Tryon, Man. Conch., Vol. x., p. 107, pl. lxiii., f. 25-26. Cape Solander, Botany Bay, (Brazier).

Family TROCHIDÆ.

566 TROCHUS (MINOLIA) PULCHERRIMA, Angas, P.Z.S., 1869, p. 48, pl. ii., f. 10. P.J.

567 T. DIANTHUS, Fischer, Coq. Viv., p. 392, pl. cxviii., f. 2, = *M. bellula*, Angas, P.Z.S., 1869, p. 48, pl. ii., f. 11. P.J.

568 T. VITILIGINEA, Menke, Moll. Nov. Holl., p. 18. Dredged in Middle Harbour.

569 T. PRODICTUS, Fischer, Coquill Viv., (Trochidæ) p. 395, pl. cxviii., f. 1. P.J.

570 T. APICINA, Gould, Otia. Conch., p. 154. P.J.

571 T. (MONILEA) LENTIGINOSA, A. Adams, P.Z.S., 1851, p. 188, = *M. corrugata*, A. Adams, P.Z.S., 1854, p. 41, (non *T. corrugatus*, Koch) Off South Reef, 8 fms.; Hunter's Bay, Middle Harbour; Cabbage Tree Bay, Manly.

572 T. (GIBBULA) COXI, Angas, P.Z.S., 1867, p. 115, pl. xiii., f. 26. Dredged in P.J.

573 T. SULCOSA, A. Adams, P.Z.S., 1851, p. 186. Middle Harbour; Coogee Bay.

574 T. STRANGEI, A. Adams, P.Z.S., 1851, p. 177. Under stones at low water, P.J.

575 T. PICTURATA, A. Adams & Angas, P.Z.S., 1864, p. 36. On Seaweed, Coogee Bay.

576 T. GLYPTUS, Watson, C.R., Vol. xv., p. 75, pl. vi., f. 8. Station 164 B, 410 fms., ("Challenger.")

577 T. (ZIZYPHINUS) POUPINELI, Souverbie, Jour. de Conch., Vol. XXIII., p. 40, pl. iv., f. 6; Fischer, Coquille Viv., p. 387, pl. cxvi., f. 3, = *Z. comptus*, Adams, P.Z.S., 1854, p. 38 (non *T. comptus*, Phil.) Under stones, Shark Island, (Brazier).

578 T. ARMILLATUS, Wood, Index Test. Suppl., pl. ix., f. 5. Cape Solander, Botany Bay, (Brazier).

579 T. DECORATUS, Philippi, Zeits. fur Malak., 1846, p. 102; Conch. Cab., Band II., pl. xiii., f. 1. P.J.

580 T. (EUTROCHUS) SCITULUS, A. Adams, P.Z.S., 1854, p. 38; Reeve, Conch. Icon., Vol. XIV., p. 6, f. 44. Rose Bay; Watson's Bay; North Harbour.

581 T. (ELENCHUS) APICINUS, Menke, Moll. Nov. Holl., p. 15; Phil., Conch. Cab., p. 133, pl. xxiii., f. 5. Dredged in deep water, P.J.

582 T. EXIGUUS, Gould, Otia. Conch., p. 156. P.J.

583 T. LEUCOSTIGMA, Menke, Moll. Nov. Holl., p. 15; Phil., Conch. Cab., p. 138, pl. xxiii., f. 16. Dredged in deep water, P.J.

584 T. BADIUS, Wood, Index Test., (Ed. Hanley) p. 221, suppl. pl. vi., f. 46. P.J.

585 T. FULIGINENS, A. Adams, P.Z.S., 1851, p. 180; Watson, C.R., Vol. xv., p. 67, pl. iv., f. 11. P.J.

586 T. (CANTHARIDUS) TIBERIANUS, Crosse, Jour. de Conch., 1863, p. 381, pl. xiii., f. 2. On Seaweed, Coogee Bay.

587 T. LINEOLARIS, Gould, Otia. Conch., 157. P.J.

588 T. (BANKIVIA) FASCIATUS, Menke, Syn. Meth. Moll., pp. 51-141 = *B. varians*, Kraus; Phil., Conch. Cab., p. 33, pl. v., f. 1-5. P.J.

589 T. LUGUBRIS, Gould. Otia. Conch., p. 157. P.J.

590 T. (TROCHOCOCHLEA) ZEBRA, Menke; Philippi, Conch. Cab., (Kuster) p. 160, pl. xxvi., f. 4. P.J.

591 T. EXTENUATA, Fischer, Coquille Viv., p. 330, pl. ciii., f. 1; = *Labio porcatus*, A. Adams, P.Z.S., 1851, p. 179, (non *T. porcatus*, Phil.) P.J.

592 T. MULTICARINATA, Chenu., Manuel de Conch, Vol. I., p. 360, f. 2676. P.J.

593 T. STRIOLATUS, Quoy & Gaim., Voy. "Astrolabe," Vol. III., p. 253, pl. lxiii., f. 18-22, Conch. Cab., p. 58, pl. xxvi., f. 1. P.J., (Brazier); (Quoy & Gaimard).

594 T. (EUCHELUS) BACCATUS, Menke, Moll. Nov. Holl., p. 14; Conch. Cab., p 173, pl. xxvii., f. 13. (*T. aspersus*, Koch.) Common under stones, Watson's Bay.

595 T. SCABRIUSCULUS, Adams & Angas, P.Z.S., 1867, p. 181; Fischer, Coq. Viv., p. 374, pl. cxiv., f. 2. In shell-sand, Middle Harbour.

596 T. (CLANCULUS) MAUGERII, Wood, Index Test. Suppl., p. 220, pl. v., f. 27; Fischer, Coq. Viv., p. 218, pl. lxxii., f. 1. Cabbage Tree Bay; North Head, (Brazier).

597 T. CLANGULUS, Gray; Wood, Index Test. Suppl., p. 17, no. 31, pl. v., f. 31, 1828, (non *C. Clanguloides*, Wood). Frequent under stones, Watson's Bay.

598 T. HOMALOMPHALUS, A. Adams, P.Z.S., 1851, p. 162, no. 44; Fischer, Coq. Viv., p. 235, pl. lxxxi., f. 2. Under stones, Watson's Bay.

599 T. FLORIDUS, Philippi, Conch. Cab, (Kuster) p. 243, no. 309, pl. xxxvi., f. 15. Bottle and Glass Rocks; Sow and Pigs Reef, 5 fms.

600 T. JACUNDUS, Gould, Otia. Conch., p. 156. P.J.

601 T. OCELLATUS, Gould, Otia. Conch., p. 156. P.J.

602 T. NODOLIRATUS, A. Adams, P.Z.S., 1851, p. 163. Shark Bay, P.J.

603 T. (SOLARIELLA) ALBUGO, Watson, C.R., Vol. xv., p. 75, pl. vi., f. 8. P.J., ("Challenger.")

604 AUSTRALIUM TENTORIFORMIS, Jonas; Reeve, Conch. Icon., Vol. XIII., pl. viii., f, 46; Fischer, Coq. Viv., p. 41, pl. xxxi., f. 2, pl. lxxix., f. 2; Tryon, Man. Conch., Vol. x., p. 240, pl. liii,, f. 41, 42. Common at Watson's Bay.

Family STOMATELLIDÆ.

605 STOMATELLA IMBRICATA, Lam., Encycl. Meth., pl. ccccl., f. 2 a-b; Sowerby, Thes. Conch., Vol. II., pl. clxxiv., f. 1. Under stones at low water, Watson's Bay.

606 S. NIGRA, Quoy & Gaim., Voy. "Astrolabe," Vol. III., p. 307, pl. lxvi., f. 10-12; Sowerby, Vol. II., pl. clxxiii , f. 14-16. Common under stones all round P.J.

Family PLEUROTOMARIIDÆ.

607 SCHISMOPE CARINATA, Watson, C.R., Vol. XV., p. 119, pl. viii., f. 6. P.J., 6 – 10 fms., ("Challenger.")

Family HALIOTIDÆ.

608 HALIOTIS NAEVOSA, Martyn, Univ. Conch., pl. xi., f. 63; Phil. Conch. Cab., p. 34, pl. xiv., f. 1-3.

609 H. COCO-RADIATA, Reeve, P.Z.S., 1846, p. 55; Conch. Icon., Vol. III., pl. xiii., f. 46. Under stones, Watson's Bay.

610 H. BRAZIERI, Angas, P.Z.S., 1869, p. 45, pl. ii., f. 1. Watson's Bay, Vaucluse Point.

611 H. ROEI, Gray, Appendix to King's Voy., Vol. II., p. 493, = *H. Hargravesi*, Cox, P.Z.S., 1869, p. 49, pl. xxvi., f. 4; Reeve, Conch. Icon., Vol. III., pl. iv., f. 10. Broken Bay Heads.

612 H. PARVA, Linn.; Reeve, Conch. Icon., Vol. III., pl. xv., f. 53 b. Under a large stone, Bottle and Glass Rocks, (Brazier).

Sub-Order Edriopthalma.

Family FISSURELLIDÆ.

613 FISSURELLA LINEATA, Sowerby, Thes. Conch., Vol. III., pl. ccxli., f. 134-135, = *F. Incei*, Reeve, Conch. Icon., pl. x., f. 69. On rocks, and under stones at low water, P.J.

614 F. CONCATENATA, Crosse & Fischer, Jour. de Conch., 1864, p. 348, pl. iii., f. 4-6. Botany Bay.

615 F. SCUTELLA, Gray, B.M.; Sow., Conch. Ill., f. 34; Thes. Conch., Vol. III., pl. ccxliv., f. 207. Botany Bay.

616 F. NIGRITA, Sow., P.Z.S., 1834, p. 127 ; Thes. Conch., Vol. III., pl. viii., f. 196. P.J.

617 EMARGINULA RUGOSA, Quoy & Gaim., Astrolabe, Vol. III., p. 331, pl. lxviii., f. 17-18, var. ASPERA, Gould, Otia. Conch., p. 12 ; Sow., Thes. Conch., Vol. III., pl. ccxlviii., f. 92, 93, 95, 96-102. P.J.

618 E. STELLATA, A. Adams, 1851, p. 87 ; Sow., Thes. Conch., Vol. III., pl. xiii.. f. 103. Watson's Bay ; Coogee Beach.

619 E. CANDIDA, A. Ad., 1851, p. 85 ; Sow., Thes. Conch., Vol. III., pl. xi., f. 45-46. P.J.

620 E. PARMOPHOIDEA, Quoy & Gaim., Astrolabe, Vol. III., p. 325, pl. lxviii., f. 15-16, = *E. intermedia*, Reeve, Conch. Ill., pl. cxxxix., f. 5-6. P.J.

621 SCUTUS ANATINUS, Donovan in Rees Encyclopedia, Vol. V., Nat. Hist., plates, Conchology, pl. xvi., = *Parmorphorus Australis*, Lam.; Reeve, Conch. Syst., pl. cxxxix., f. 2-3, = *P. convexus*, Quoy & Gaim., Vol. III., p. 322, pl. lxix., f. 5-16. Common under stones, Watson's Bay.

Family PATELLIDÆ.

622 ACMAEA JACKSONIENSIS, Reeve, Conch. Icon., Vol. VIII., pl. xxxix., f. 127 a-b. On the rocks at low water.

623 A. SCABILIRATA, Angas, P.Z.S., 1865, p. 154. Under stones at low water.

624 A. STELLARIS, Quoy & Gaimard, Astrolabe, Vol. III., p. 356, pl. lxxi., f. 1-4. Vaucluse Point.

625 A. SUBUNDULATA, Angas, P.Z.S., 1865, p. 155. On the rocks at low water.

626 A. SEPTIFORMIS, Quoy & Gaim., Astrolabe, Vol. III., p. 362, p. lxxi., f. 43, 44. Coogee ; Bondi.

627 A. CONOIDEA, Quoy & Gaim., Astrolabe, Vol. III., p. 355, pl. lxxi., f. 5-7. Sow and Pigs Reef.

628 A. CINNAMONEA, Gould, Otia. Conch., p. 9. P.J., (Brazier).

629 A. ACULEATA, Reeve, Conch. Icon., Vol. VIII., pl. xxxii., f. 90 a-b, = *A. squamifera*, Reeve, l.c., pl. xxxii., f. 94 a-b. Bondi Bay.

630 A. ALTICOSTATA, Angas, P.Z.S., 1865, p. 56, pl. ii., f. 11. P.J.

631 PATELLA TRAMOSERICA, Martyn, Univ. Conch., Vol. I., pl. xvi. ; Reeve, Conch. Icon., Vol. VIII., pl. xiii., f. 97. Very common on rocks and stones, P.J.

632 P. STELLAEFORMIS, Reeve, Conch. Icon., Vol. VIII., pl. xx., f. 48 a, b, c. Coogee ; Bondi.

Order POLYPLACOPHORA.

Family CHITONIIDÆ.

633 CHITON GLAUCUS, Gray, Spic. Zool., 1830, p. 5 ; = *C. Quoyi*, Deshayes; Reeve, Conch. Icon., Vol. IV., pl. xiii., f. 68. P.J.
634 C. MURICATUS, Adams, P.Z.S., 1852, p. 91. P.J.
635 C. SMARAGDINUS, Angas, P.Z.S., 1867, p. 115, pl. xiii., f. 28. P.J.
636 C. PROTEUS, Reeve, Conch. Icon., Vol. IV., pl. viii., f. 111. Common under stones, P.J.
637 C. JUGOSUS, Gould, Proc. Bost. Soc., N. Hist., Vol. II., p. 142, 1846; U.S. Expl. Exp., Moll., Vol. XII., p. 317, pl. XXVIII., f. 430. Camp Cove, P.J.
638 C. USTULATUS, Reeve, Conch. Icon., Vol. IV., pl. xvii., f. 102. Under stones, Watson's Bay.
639 C. CARPENTERI, Angas, P.Z.S., 1867, p. 17, pl. xiii., f. 30. P.J.
640 C. INCEI, Reeve, Conch. Icon., Vol. IV., pl. xvi., f. 94. Watson's Bay.
641 C. RUGULOSUS, Angas, P.Z.S., 1867, p. 115, pl. xiii., f. 29. P.J.
642 C. RUGOSUS, Gray ; Sow., Conch. Ill., f. 49 ; Reeve, Conch. Icon., Vol. IV., pl. xviii., f. 115. P.J.
643 C. PETHOLATUS, Sow., Conch. Ill., f. 65-66 ; Reeve, Conch. Icon., Vol. IV., pl. xiv., f. 74. P.J.
644 C. SCUTIGER, Adams & Reeve, Voy. "Samarang" ; Reeve, Conch. Icon., Vol. IV., pl. xxvii., f. 178. Under stones, Watson's Bay.
645 C. CARINATUS, H. Adams & Angas, P.Z.S., 1864, p. 194. P.J.
646 C. QUERCINUS, Gould, Otia. Conch., p. 3. P.J.
647 C. ANTIQUUS, Reeve, Conch. Icon., Vol. IV., pl. xxv., f. 169. P.J.
648 C. COPPINGERI, Smith, Zool. "Alert," p. 80, pl. vi., f. E. P.J.
649 C. FRUTICOSUS, Gould, Otia. Conch., p. 4. P.J.
650 C. AUSTRALIS, Sowerby, Conch. Ill., f. 46 ; Reeve, Conch. Icon., Vol. IV., pl. ii., f. 10. P.J.
651 C. LONGICYMBA, Blainville ; Sow., Conch. Ill., f. 67 ; Reeve, Conch. Icon., Vol. IV., pl. xxiv., f. 163 a to d. Common at Watson's Bay.
652 C. INCANA, Gould, P. Bost. Soc., N.H., Vol. II., p. 145 ; U.S. Expl. Exp., Moll., p. 315, pl. xxviii., f. 432, 433 a ; Otia. Conch., p. 6. P.J.
653 C. PLATESSA, Gould, Otia. Conch., = *C. versicolor*, Adams, P.Z.S., 1852, p. 92, pl. xvi., f. 5.
654 C. COSTATUS, H. Adams & Angas, P.Z.S., 1864, p. 194; Dall., Bull. U.S. Museum, I., p. 81, f. 40, (dentition). Watson's Bay.
655 C. ANGASI, H. Adams, P.Z.S., 1864, p. 193. P.J.
656 C. VOLVOX, Reeve, Conch. Icon., Vol. IV., 1847, pl. vi., f. 31. Under stones, Middle Harbour ; Watson's Bay.

657 C. GRAYI, H. Adams & Angas, P.Z.S., 1864, p. 194. Dredged in Watson's Bay.

658 CHITONELLUS STRIATUS, Lam.; Sowerby, Conch. Ill., f. 62; Reeve, Conch. Icon., Vol. IV., pl. i., f. 4. Common under stones, P.J.

Order TECTIBRANCHIATA.

Family PHILINIDÆ.

659 PHILINE ANGASI, Crosse, Jour. de Conch., 1865, pl. ii., f. 8. Common on mud banks.

660 CHELIDONURA ADAMSI, Angas, P.Z.S., 1867, p. 116, pl. xiii., f. 32. Found in a rock-pool at low water, Bottle and Glass Rocks, (Brazier).

Family TORNATELLIDÆ.

661 TORNATINA HOFMANI, Angas, P.Z.S., 1877, p. 39, pl. v., f. 19. Sow and Pigs Reef, (Brazier).

662 T. BRENCHLEYI, Angas, P.Z.S., 1877, p. 40, pl. v., f. 20. Dredged outside P.J. Heads, 10 fms., (Brazier).

663 T. FUSIFORMIS, A. Adams; Sow., Thes. Conch., Vol. III., p. 570, pl. cxxi., f. 37. Dredged in P.J., 4 fms.

664 T. APICINA, Gould, Otia. Conch., p. 113. P.J.

665 MYONIA CONCINNA, A. Adams; Sow. Thes. Conch., Vol. II., p. 172, f. 34. Dredged in P.J.

666 M. SPECIOSA, A. Adams; Sow., Thes. Conch., Vol. II., pl. clxxii., f. 24, 25. Dredged in Lane Cove River, 3 fms., (Brazier).

667 M. SINUATA, Angas, P.Z.S., 1877, p. 39, pl. v., f. 18. Sow and Pigs Reef, (Brazier).

668 LEUCOTINA ESTHER, Angas, P.Z.S., 1867, p. 116, pl. xiii., f. 31. Deep water, P.J., (Angas).

669 TORNATELLA COCCINATUS, Reeve, P.Z.S., 1842, p. 60; Conch. Icon., Vol. XV., pl. i., f. 1 b-c. Inner North Head, 4 fms., (Brazier).

670 T. AFFINIS, A. Adams, P.Z.S., 1854, p. 61, (Solidula). Dredged in P.J.

671 T. NIVEUS, Angas, P.Z.S., 1871, p. 19, pl. i., f. 27. Sow and Pigs Reef, (Brazier).

672 RINGICULA CARON, Hinds, P.Z.S., 1844; Voy. "Sulphur," p. 47, pl. xvi., f. 15, 16. Off Goat Island, 10 fms., (Brazier).

673 R. DENTICULATA, Gould, Otia. Conch., p. 121. P.J.

674 R. EXSERTA, Hinds, P.Z.S., 1844, p. 97. Dredged near Sow and Pigs Reef, (Brazier).

675 R. ARCTATA, Gould, Otia. Conch., p. 122. Goat Island, P.J., (Brazier).

676 R. AUSTRALIS, Crosse, Jour. de Conch., 1865, p. 44, pl. ii., f. 5. P.J.

677 R. DOLIARIS, Gould ; Watson, C.R., Vol. XV., p. 634, pl. xlvii., f. 8. P.J., 2 – 15 fms.

Family CYLICHNIDÆ.

678 CYLICHNA ELEGAN, Angas, P.Z.S., 1877, p. 175, pl. xxvi., f. 19. Sow and Pigs Reef, (Brazier).

679 C. REGULARIS, Gould, Otia. Conch., p. 113. Sow and Pigs Reef, P.J.

680 C. ARACHIS, Quoy & Gaim., Astrolabe, Vol. II., p. 361, pl. xxvi., f. 28-30. P.J.

681 UTRICULUS (TORNATINA) AVENARIUS, Watson, C.R., Vol. XV., p. 658, pl. xlix., f. 5. P.J.

682 DIAPHANA BRAZIERI, Angas, P.Z.S., 1877, p. 175, pl. xxvi., f. 20. Sow and Pigs Reef, P..J., 4 fms., sandy mud, (Brazier.)

683 AGATHA AUSTRALIS, Angas, P.Z.S., 1871, p. 15, pl. i., f. 9. Dredged near Sow and Pigs Reef, (Brazier).

Family BULLIDÆ.

684 BULLA AUSTRALIS, Gray, Annals of Philosophy, New Series, Vol. IX., p. 408, 1825 ; Quoy & Gaim., Astrolabe, pl. xxvi., f. 38, 39. For synonyms see P.L.S., N.S.W., Vol. x., p. 85, by John Brazier. Sow and Pigs Reef, 2 – 5 fms., (Brazier).

685 B. PUNCTATA, A. Adams, Thes. Conch., p. 577, pl. cxxiii., f. 77. P.J.

686 B. AMPULLA, Linn. ; Reeve, Conch. Icon., Vol. XVI., pl. i., f. 3, = *B. solida*, Gmelin ; Angas, P.Z.S., 1867, p. 226. Middle Harbour.

687 H. TENERA, A. Adams; Sow., Thes. Conch., p. 583, pl. cxxiv., f. 103. Sand Spit, Middle Harbour, (Brazier).

688 H. CUTICULIFERA, Smith, Ann. & Mag., N.H., 1872, p. 350; Zool. "Alert," p. 87, pl. vi., f. H. Sow and Pigs Reef, P.J.

689 H. CROCATA, Pease, P.Z.S., 1860, p. 432 ; Reeve, Conch. Icon., Vol. XVI., pl. v., f. 29 a-b. P.J.

Family APLUSTRIDÆ.

690 BULLINA LINEATA, Gray, Annals of Philosophy, New Series, Vol. IX., p. 408, 1825 ; Wood, Index Test. Suppl., p. 9, no. 1, pl. iii., f. 1. Rock-pools, Shark Island, (Brazier).

691 B. SCABRA, Chemnitz, Conch. Cab., Vol. x., pl. cxlvi., f. 1352-3. P.J. Heads.

692 HYDATINA PHYSIS, Linn. ; Martini, Conch. Cab., pl. xxi., f. 196-197 ; Reeve, Conch. Icon., Vol. XVI., pl. i., f. 2. Neutral Bay ; Vaucluse Bay.

Family LOPHOCERCIDÆ.

693 LOPHOCERCUS DELICATULUS, G. H. Neville, Jour. Asiatic Soc., Bengal, 1866, Vol. XXXVIII., p. 67, pl. xiii., f. 5, (Oxynoe). Sow and Pigs Reef, (Brazier).
694 ASKERA SOLUTA, Chemnitz, Conch. Cab., Vol. x., pl. xlvi., f. 1359 and 61; Reeve, Conch. Icon., Vol. XVI., pl. i., f. 4 a-b. P.J.
695 A. FISCHERI, Adams & Angas, P.Z.S., 1864, p. 37. Lane Cove River, (Brazier).

Family APLYSIIDÆ.

696 APLYSIA TIGRINA, Rang., Hist. Nat. de Aplysiens, pl. xiii. Middle Harbour; Coogee Bay.
697 A. KERAUDRENI, Rang., Hist. Nat. de Aplysiens, pl. xiii. P.J.
698 A. EXCAVATA, Sowerby; Reeve, Conch. Icon., Vol. XVII., pl. iii., f. 8. Bottle and Glass Rocks, (Brazier.)
699 A. HYALINA, Sowerby; Reeve, Conch. Icon., Vol. XVII., pl. iv., f. 13. Lane Cove River, (Brazier.)
700 A. SYDNEYENSIS, Sowerby; Reeve, Conch. Icon., Vol. XVII., pl. vii., f. 31. Shark Island, (Brazier).
701 A. ANGASI, Sowerby; Reeve, Conch. Icon., Vol. XVII., pl. viii., f. 36. Sow and Pigs Reef, (Brazier).
702 A. NORFOLKENSIS, Sowerby; Reeve, Conch. Icon., Vol. XVII., pl. x., f. 42. Shark Island, (Brazier).
703 DOLABELLA SCAPULA, Martyn, = *D. Rumphi*, Cuvier; Reeve, Conch. Icon., Vol. XVI., pl. ii., f. 3. Found on sandy mud at low water, Parramatta River.
704 DOLABRIFERA BRAZIERI, Sowerby, P.Z.S., 1870, p. 250. Bottle and Glass Rocks, (Brazier).

Family PLEUROBRANCHIDÆ.

705 PLEUROBRANCHUS ANGASI, Smith, Zool. "Alert," p. 88, pl. vi., f. K, K[1]. P.J.

Family UMBRELLIDÆ.

706 OPERCULATUM AURANTIUM, Pease, American Jour. Conch., Vol. III., p. 287, = *Umbrella aurantia*. Cabbage Tree Bay; Botany Bay.

Order NUDIBRANCHIATA.

Family DORIDÆ.

707 DORIS VARIABILIS, Angas, Journal de Conchyliologie, (Paris) 1864, Vol. XII., p. 44, pl. iv., f. 1. Garden Island, P.J.
708 D. DENISONI, Angas, l.c., p. 45, pl. iv., f. 2. P.J.
709 D. CHRYSODERMA, Angas, l.c., p. 46, pl. iv., f. 3. P.J.

710 D. ARBUTUS, Angas, l.c., p. 47, pl. iv., f. 4. Coogee Bay.
711 D. PANTHERINA, Angas, l.c., p. 47, pl. iv., f. 5. Coogee Bay.
712 D. NODULOSA, Angas, l.c., p. 48, pl. iv., f. 6. Coogee Bay.
713 D. CARNEOLA, Angas, l.c., p. 48, pl. iv., f. 7. P.J.
714 D. OBTUSA, Stimp., P. Acad. N. Sci., Phil., 1855, p. 389, (Vol. VII.) P.J., (Stimpson).
715 D. EXCAVATA, Stimp., l.c., p. 389. P.J., (Stimpson).
716 D. PRAETENERA, Abraham, P.Z.S., 1877, p. 258, pl. xxx., f. 10-12. N.S.W.
717 ACTINODORIS AUSTRALIS, Angas, l.c., p. 49, pl. iv., f. 8. N.S.W.
718 ANGASIELA EDWARDSII, Angas, l.c., p. 49, pl. iv., f. 9.

Family GONIODORIDÆ.

719 CHROMODORIS BENNETTI, Angas, l.c., p. 51, pl. iv., f. 10. P.J.
720 C. LORINGI, Angas, l.c., p. 52, pl. iv., f. 11. Clark Island; Watson's Bay; P.J.
721 C. FESTIVA, Angas, l.c., p. 53, pl. iv., f. 12. Vaucluse.
722 C. DAPHNE, Angas, l.c., p. 54, pl. v., f. 3. P.J.
723 C. CROSSEI, Angas, l.c., p. 54, pl. v., f. 1. P.J.
724 C. SPLENDIDA, Angas, l.c., p. 55, pl. v., f. 2. Watson's Bay, P.J.
725 C. VERRUCOSA, Crosse, l.c., p. 56, pl. v., f. 4. Shark Island, P.J.
726 C. ERINACEUS, Crosse, l.c., p. 57, pl. v., f. 5. Garden Island, P.J.
727 C. OBSCURA, Stimpson, P. Acad. N. Sci., Phil., 1855, p. 388. P.J., (Stimpson).
728 C. RUNCINATA, Bergh., C.R., Vol. x., p. 76, pl. vi., f. 1-4. P.J.

Family POLYCERIDÆ.

729 POLYCERA COOKI, Angas, l.c., p. 58, pl. v., f. 6. Botany Bay.
730 CASELLA ATROMARGINATA, Cuvier, Ann. du Mus., Vol. IV., 1804, p. 473, pl. lxxiv., f. 6.
731 PLOCAMPHORIS IMPERIALIS, Angas, l.c., p. 59, pl. v., f. 7. Vaucluse, P.J.

Family TRIOPIDÆ.

732 TRIOPA YATESI, Angas, l.c., p. 60, pl. v., f. 8. Watson's Bay, P.J.

Family DENDRONOTIDÆ.

733 BORNELLA HERMANNI, Angas, l.c., p. 61, pl. vi., f. 1. Watson's Bay, P.J.

Family MELIBAEIDÆ.

734 Melibaea Australis, Angas, l.c., p. 62, pl. vi., f. 2. Watson's Bay, P.J.

Family PROCTONOTIDÆ.

735 Janus sanguineus, Angas, l.c., p. 63, pl. vi., f. 5. Watson's Bay, P.J.

Family ÆOLIDÆ.

736 Æolis Foulisi, Angas, l.c., p. 64, pl. vi., f. 3. P.J.
737 Æ. Macleayi, Angas, l.c., p. 65, pl. iv. P.J.
738 Æ. cacaotica, Stimpson, Proc. Acad. N. Sci., Phil., 1855, p. 388. P.J., (Stimpson).
739 Flabellina ianthina, Angas, l.c., p. 66, pl. vi., f. 6. Watson's Bay, P.J.
740 F. ornata, Angas, l.c., p. 67, pl. vi., f. 7. P.J.
741 F. Newcombi, Angas, l.c., p. 68, pl. vi., f. 8. Coogee Bay; P.J.

Family ELYSIIDÆ.

742 Elysia Coogeensis, Angas, l.c., p. 69, pl. vi., f. 9. Coogee Bay.
743 E. Australis, Quoy & Gaim., Astrolabe, Vol. II., p. 317, pl. xxiv., f. 18-20. P.J.
744 Glaucus sp. Frequent on the beach at Coogee and Bondi after heavy gales.
745 Rizzolia Australis, Bergh., C.R., Vol. x., p. 27, pl. ix., f.
746 Doridopsis Australiensis, Abrahams, P.Z.S., 1877, p. 263, pl. xxx., f. 25-26. N.S.W.

Sub-Class Pulmonata.

Order BASOMMATOPHORA.

Family AURICULIDÆ.

747 Cassidula zonata, H. Adams & Angas, P.Z.S., 1854, p. 32. Mangrove Swamps, Cook's River, Botany Bay.
748 Marinula patula, Low, Zool. Journal, 1835, Vol. v., p. 289, = *M. xanthostoma*, H. & A. Adams, P.Z.S., 1854, p. 35; Pfeiffer, Mon. Auricul., p. 62. P.J.
749 Ophicardelus Australis, Quoy & Gaim., Astrolabe, Vol. II., pl. xiii., f. 34-38; Pfeiffer, Mongraphia Auriculaceorum, p. 52. Cook's River.
750 O. sulcatus, H. Adams & Angas, P.Z.S., 1854, p. 34; Pfeiffer, Monographia Auriculaceorum, p. 54.
751 O. Quoyi, H. Adams & Angas, P.Z.S., 1854, p. 34; Pfeiffer, Monographia Auriculaceorum, p. 50. P.J.

752 O. IRREGULARIS, Mouss., Jour. de Conch., 1869, p. 64, pl. v., f. 2. P.J.

753 O. MINOR, Mouss., Jour. de Conch., 1869, p. 65, pl. v., f. 3. P.J.; Botany Bay.

Family AMPHIBOLIDÆ.

754 AMPHIBOLA QUOYANA, Potiez & Michaud. Galerie des Mollusques, 1838, p. 288, pl. i.-xxviii., f. 17, 18. Rushcutter's Bay; Cook's River.

755 A. FRAGILIS, Lam.; Quoy & Gaim., Astrolabe, Vol. II., p. 201, pl. XV., f. 10-12. Banks of Parramatta River.

Family SIPHONARIIDÆ.

756 SIPHONARIA SCABRA, Reeve, Conch. Icon., Vol. IX., pl. i., f. 2. P.J.

757 S. DENTICULATA, Quoy & Gaim., Astrolabe, Vol. II., p. 340, pl. XXV., f. 19, 20. Common on rocks and piles, P.J.

758 S. FUNICULATA, Reeve, Conch. Icon., Vol. IX., pl. ii., f. 6 a-b. P.J.

759 S. BIFURCATA, Reeve, Conch. Icon., Vol. IX., pl. v., f. 22. P.J.

760 S. COCHLEARIFORMIS, Reeve, Conch. Icon., Vol. IX., pl, vi., f. 28. On piles, Watson's Bay.

761 S. ATRA, Quoy & Gaim., Astrolabe, Vol. II., p. 337, pl. XXV., f. 41, 42. Green Point, Watson's Bay, (Brazier).

Family GADINIIDÆ.

762 GADINA CONICA, Angas, P.Z.S., 1867, p. 115, pl. xiii., f. 27. Coogee Bay.

763 G. ANGASI, Dall., Amer. Jour. Conch., Vol. VI., p. 11. Coogee Bay, = *G. pentagoniostoma*, Angas, P.Z.S., 1867, p. 220, (non Sowerby).

Class SCAPHOPODA.

Family DENTALIIDÆ.

764 DENTALIUM LUBRICATUM, Sowerby, Thes. Conch., Vol. III., p. 97, pl. iii., f. 56. Off P.J., 45 fms., (Brazier.)

765 D. ERECTUM, Sowerby, Thes. Conch., Vol. III., pl. xiii., f. 55. Sow and Pigs Reef.

766 CADULUS ACUMINATUS, Deshayes; Angas, P.Z.S., 1871, p. 97. Dredged in Middle Harbour.

PTEROPODA.

Order I. GYMNOSOMATA.

Family NOTOBRANCHÆIDÆ.

767 NOTOBRANCHÆA INOPINATA, Pelseneer, C.R., Vol. XIX., p. 40, pl. iii., f. 6. Off Sydney Harbour, (Dr. Macdonald).

Family CLIONIDÆ.

768 CLIONE CAUDATA, Macdonald, Trans. Roy. Soc., Edin., Vol. XXIII., p. 185, pl. ix., f. 3, (non *C. caudata*, Gray). Off Sydney, (Dr. Macdonald).

Order II. THECOSOMATA.

Family I. LIMACINIDÆ.

769 LIMACINA INFLATA, d'Orbigny, Voy. dans l'Amerique Meridionale, Vol. v., p. 174, pl. xii., figs. 16-19; Pelseneer, Chall. Report, Vol. XXIII., p. 17. April 3, 1874, between Melbourne and Sydney, ("Challenger.")

770 L. LESUEURI, d'Orb., l.c., p. 171, pl. xii., figs. 12-15; C.R., p. 24. April 3, 1874, between Melbourne and Sydney.

771 L. TROCHIFORMIS, d'Orb., l.c., p. 177, pl. xii., figs. 29, 31; C.R., p. 29. April 3, 1874, between Melbourne and Sydney.

772 L. BULIMOIDES, d'Orb., l.c., p. 179, pl. xii., figs. 36-38; C.R., p. 30. April 3, 1874, between Melbourne and Sydney; Botany.

Family II. CAVOLINIIDÆ.

773 CLIO (CRESEIS) VIRGULA, Rang, Ann. de Sci. Nat., Ser. I., Vol. XIII., p. 316, pl. xvii., fig. 2; C.R., p. 48. Station 164 A, off Sydney.

774 C. (CRESEIS) ACICULA, Rang, l.c., p. 318, pl. xvii., fig. 6; C.R., p. 51. Station 164 A, off Sydney.

775 C. (HYALOCYLIX) STRIATA, Rang, l.c., p. 315, pl. xv., fig. 7; C.R., p. 54. pl. ii., fig. 3. Off P.J.

776 C. (STYLIOLA) SUBULA, Quoy and Gaimard, Ann. de Sci. Nat., Ser. I., Vol. X., p. 233, pl. viii. D, figs. 1-3; C.R., p. 57. Station 164 A, off Sydney.

777 C. PYRAMIDATA, Linne, C.R., p. 63. Figured in Voy. of Bonito, pl. vi., figs. 17-25 (as *Cleodora lanceolata*). Station 164 A, off Sydney.

778 CUVIERINA COLUMNELLA, Rang, l.c., Vol. XII., p. 323, pl. xlv., figs. 1-8; C.R., p. 67. Off P.J.

779 CAVOLINA TRISPINOSA, Lesueur. Figured by Quoy & Gaimard, Ann. Sci. Nat., Ser. I., Vol. X., p. 231, pl. viii. B, figs. 1-2 as *H. mucronata;* C.R., p. 76. Broken Bay.

780 C QUADRIDENTATA, Lesueur. Figured as *C. minuta*, by Sowerby in Reeve, Conch. Icon., pl. xx., fig. 9; C.R., p. 78.

781 C. LONGIROSTRIS, Lesueur. Figured in Voy. of Bonito, Vol. II., p. 152, pl. v., figs. 1-6, as *C. angulata.*

782 C. GLOBULOSA, Rang, MS. Souleyet, Voy. of Bonito, Vol. II., p. 142, pl. iv., figs. 20-24 ; C.R., p. 81. April 3, 1874, between Melbourne and Sydney.
783 C. GIBBOSA, Rang, MS. in d'Orb., Voy. dans l'Amer. Merid., Vol. v., p. 95, pl. v., figs. 16-20 ; C.R., p. 82. Port Jackson, (Angas).
784 C. INFLEXA, Lesueur, Nouv. Bull. Soc., Philom., Vol. III., p. 285, pl. v., fig. 3 ; C.R., p. 85. Port Jackson, (Angas).
785 C. UNCINATA, Rang, MS. in d'Orb., Voy. dans l'Amer. Merid., Vol. v., p. 93, pl. v., figs. 11-15 ; C.R., p. 84.
786 CLEODORA COMPRESSA, Souleyet, Voy. of Bonito, Vol. II., p. 181, pl. vi., figs. 26-32 ; C.R., p. 87. Between Melbourne and Sydney.

Class CEPHALOPODA.

Order I. DIBRANCHIATA.

Sub-Order I. Octopoda.

Family I. OCTOPODIDÆ.

787 OCTOPUS TETRICUS, Gould ; Tryon, Manual of Conchology, Vol. I., p. 121, pl. xxxv., f. 46-47. Near Sydney.
788 O. AUSTRALIS, Hoyle, C.R., Vol. XVI., p. 88, pl. iii., f. 4-5. P.J.
789 O. BOSCII, Lesueur, var. PALLIDA, Hoyle, C.R., p. 81, pl. i., pl. iii., f. 2. Off Twofold Bay.
790 O. PICTUS, Brock, Zeits. fur Wiss. Zool., Band XXXVI., p. 603, pl. xxxvii., f. 3. Littoral ; Middle Harbour ; Watson's Bay.

Family ARGONAUTIDÆ.

791 ARGONAUTA ARGO, Linn. ; Tryon, Manual Conch., p. 138, pl. xlvii., f. 111-115, pl. xlviii., f. 116-119, pl. xlix., f. 120-123. Washed ashore at Manly Beach.
792 A. NODOSA, Solander, Tryon, l.c., p. 140, pl. l., f. 124. Coogee Bay.

Sub-Order II. Decopoda.

Family LOLIGINIDÆ.

793 LOLIGO AUSTRALIS, Gray, Brit. Mus. Cat., p. 71 ; Tryon, l.c., p. 148. P.J.
794 SEPIOTEUTHIS AUSTRALIS, Quoy & Gaimard, Voy. "Astrolabe," Vol. XI., p. 77, pl. iv., f. 1 ; Tryon, l.c., p. 151, pl. lxi., f. 201-205. P.J.

Family SEPIOLIDÆ.

795 SEPIOLA LINEOLATA, Quoy & Gaimard, Voy. "Astrolabe," Vol. II., p. 82, pl. v., f. 8-13 ; Tryon, l.c., p. 157, pl. lxvi., f. 242, pl. lxvii., f. 240, 241, 243. P.J.

796 S. SEPIOLA, Linn ; Tryon, Man. Conch., Vol. I., p. 155, pl. lxv., f. 229, 237, pl. lxvi., f. 229. Iron Stone Cove, P.J., (Brazier).

Family ONYCHOTEUTHIDÆ.

797 ONYCHOTEUTHIS RUTILIS, Gould, Otia. Conch., p. 234 ; Tryon, Man. Conch., Vol. I., p. 169, pl. lxxiv., f. 302. Near Sydney.

Family SEPIIDÆ.

798 SEPIA APAMA, Gray, Brit. Mus. Cat., p. 103, 1849 ; Tryon, l.c., p. 194. Stranded on the beach at Manly.

799 S. CULTRATA, Steenstrup ; Hoyle, C.R., Vol. XVI., p. 133, pl. xx. P.J.

800 S. LATIMANUS, Quoy & Gaimard, Astrolabe, Vol. II., p. 68, pl. ii., f. 2-11 ; Tryon, M.C., Vol. I., p. 192, pl. lxxxviii., f. 400-401. P.J.

801 S. CAPENSE, Orb. ; Tryon, Man. Conch., Vol. I., p. 198, pl. xciv., f. 440-442. P.J.

Family SPIRULIDÆ.

802 SPIRULA PERONII, Lam.; Tryon, l.c., p. 205, pl. xcvi., f. 467-469, pl. cv., f. 585. Coogee ; Bondi ; Botany ; and Middle Harbour.

MOLLUSCOIDEA.

Class I. POLYZOA.

Sub-Class HOLOBRANCHIA, Ray Lankester.

Group A. ECTOPROCTA.

Order GYMNOLAEMATA.

Sub-Order Cheilostomata.

Family ÆTEIDÆ.

1 ÆTEA ANGUINA, Linn. ; Busk, Brit. Mus. Cat., Polyzoa, p. 31, pl. xv., f. 1. Off P.J., ("Challenger.")

2 Æ. DILATATA, Busk, Ann. Mag. Nat. Hist., 2 Ser.. Vol. VII., p. 85, pl. ix., f. 14. On seaweed, Coogee Bay, (W.)

Family EUCRATEIDÆ.

3 SCRUPARIA CHELATA, Linn., Syst. Ed. 10, 816; British Museum Catalogue of Marine Polyzoa, by G. Busk, 1852, p. 29, pl. xvii., f. 2. Littoral, Botany Bay; very common off Ball's Head, P.J., (W.)

4 DIMETOPIA SPICATA, Busk, B.M.C., p. 35, pl. xxix., f. 1. La Perouse, (Brazier); Middle Harbour, (W.)

5 D. CORNUTA, Busk, B.M.C., p. 35, pl. xxix., f. 2-3. Coogee Bay; Botany, (W.)

Family CATENICELLIDÆ.

6 CATENICELLA VENTRICOSA, Busk, B.M.C., p. 7, pl. ii., f. 1-2, pl. iii., f. 1, 2, 3, 4, 5. Very common on the roots of seaweeds, P.J., (W.)

7 C. ALATA, W. Thomson, Dublin, Nat. Hist. Review, 1858. La Perouse, (Brazier); Coogee and Bondi Bays, (W.)

8 C. HASTATA, Busk, B.M.C., p. 7, pl. ii., f. 2-3. La Perouse, (Brazier).

9 C. BUSKII, Wyville Thomson, Nat. Hist. Review, 1858, p. 139, pl. xi., f. 2. Common on *Catenicella ventricosa*, and on the roots of seaweeds, P.J., (W.)

10 C. DELICATULA, Wilson, Trans. Microscopical Society Victoria, Vol. I., p. 65, pl. iv., f. 2. La Perouse, (Brazier).

11 C. ELEGANS, Busk, B.M.C., p. 10, pl. ix., f. 1, 2, 3, 4. Bondi Bay, (W.)

12 C. UMBONATA, Busk, B.M.C., p. 11, pl. x., f. 4-5. Off P.J., (' Challenger.")

13 C. PULCHELLA, Maplestone, Jour. Micro. Soc., Victoria, Vol. I., (1880) p. 64, pl. v., f. 4. 163 B, off P.J.

14 C. PLAGIOSTOMA, Busk, B.M.C., p. 8, pl. v., f. 1-2. Coogee Bay, May 1889, (W.); off P.J., ("Challenger.")

15 C. FORMOSA, Busk, B.M.C., p. 9, pl. vii., f. 1-2. Bondi Bay, (W.)

16 C. MARGARITACEA, Busk, B.M.C., p. 9, pl. vi., f. 1, 2, 3. Coogee Bay, (W.)

Family CALWELLIIDÆ.

17 CALWELLIA GRACILIS, Maplestone; McGill, P.R.S., Vict., 1885, p. 158. Farm Cove, with *avicularia* previously unknown in the genus, (W.)

Family CELLULARIIDÆ.

18 CELLULARIA CUSPIDATA, Busk, B.M.C., p. 19, pl. xxvii., f. 1-2. Shark Island, (Brazier); off P.J., ("Challenger.")

19 SCRUPOCELLARIA SCRUPEA, Busk, B.M.C., p. 24, pl. xxi., f. 1-2. On seaweeds, Middle Harbour, (W.)

20 S. CURVICORNIS, Busk, B.M.C., p. 24, pl. lxii. Watson's Bay, (W.)
21 S. OBTECTA, Haswell, P.L.S., N.S.W., Vol. v., p. 37; McGillivray, Prodromus of the Zoology of Victoria, pl. cxxvi. P.J.
22 CANDA ARACHNOIDES, (Lamx.) Busk, B.M.C, p. 26, pl. xxxiii. La Perouse, (Brazier).
23 CABEREA BORYI, Savigny, Voy. dans l'Egypte, pl. xii., f. 4; Busk, p. 38, pl. xvi., f. 4-5. Bondi Bay, (Brazier).
24 C. ROSTRATA, Busk, Chall. Rep., p. 28, pl. xxxii., f. 4. La Perouse, (Brazier).
25 C. GRANDIS, Hincks, Ann. & Mag. Nat. Hist., Ser. 5, Vol. VIII., p. 2, pl. iii., f. 4, 4 a, 4 b. La Perouse, (J. Brazier).
26 MENIPEA CRYSTALLINA, Gray; Dieffenbach's New Zealand II., 293; Busk, B.M.C., p. 28, pl. xl. Middle Harbour; Coogee Bay, (W.)
27 M. CURVICORNIS, McGillivray, Prod. Zool., Victoria, decade VI., p. 34, pl. lviii. Shark Island, (Brazier).
28 DIDYMIA SIMPLEX, Busk, B.M.C., p. 35, pl. xxxix. Middle Harbour, (W.)
29 NELLIA SIMPLEX, Busk, B.M.C., p. 19, pl. lxv., f. 1. Watson's Bay, (W.)

Family SALICORNARIIDÆ.

30 CELLARIA AUSTRALIS, McGillivray, P.Z., Vict., pl. xlix. Off P.J., ("Challenger.")
31 C. GRANULOSA, Haswell, P.L.S., N.S.W., Vol. v., p. 36. Found in dredgings, P.J.

Family TUBUCELLARIIDÆ.

32 TUBUCELLARIA HIRSUTA, (Lamx.) Busk, Chall. Polyzoa, p. 100, pl. xxxvi., f. 18. Shark Island, P.J., (Hunt).

Family BICELLARIIDÆ.

33 BICELLARIA SP. Common under stones, Middle Harbour,(W.)
34 STIRPARIA? SP. On a sponge, dredged Middle Harbour, (Dr. E. P. Ramsay).
35 BUGULA DENTATA, (Lamx.) Busk, B.M.C., p. 46, pl. xxxv. Off Ball's Head, P.J., (Brazier).
36 B. NERITINA, (Linn.) Busk, Chall. Rep., Vol. x., p. 42. Very common on piles in P.J., the variety with *avicularia* under stones, Watson's Bay, (W.)
37 B. AVICULARIS, (Pallas) Busk, B M.C., p. 45, pl. liii. Under stones, Farm Cove, (W.)
38 BEANIA MAGELLANICA, Busk, B.M.C., p. 54, pl. lxvii. Very common on weeds, stones, &c., Mossman's Bay and many other places, (W.)

39 B. SPINIGERA, McGillivray, Trans. Roy. Soc., Vict., 1859, Vol. III., p. 165 pl. ii., f. 12. Off Green Point, (W.)
40 B. QUADRICORNUTA, Hincks, Ann. & Mag, N.H., Ser. 5, Vol. XV., p. 245, pl. ix., f. 2; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 4. Green Point, P.J., (Brazier).
41 B. HIRSUTISSIMA, var. CONFERTA, McGillivray, Trans. R. Soc., Vict., Vol. XXII., p. 130, pl. i., f. 5; Waters, l.c., p. 4, pl. ii., f. 12-14. Green Point, P.J., (Brazier).

Family FLUSTRIDÆ.

42 FLUSTRA DISSIMILIS, Busk, B.M.C., p. 51, pl. l., f. 4, 5, 6, 7. Bondi Bay, (W.)
43 F. MILITARIS, Waters, Ann. & Mag. Nat. Hist., Ser. 5, Vol. XX., p. 93, pl. iv., f. 2. Frequent between light-ship and Bradley's Head; trawled, (Brazier), (W.)
44 CRASPEDOZOUM ROBERATUM, Hincks, Ann. & Mag. N.H., Ser. 5, 1881, Vol. VIII., p. 128, pl. ii., f. 3. Off Green Point, (W.)

Family FARCIMINARIIDÆ.

45 FARCIMINARIA SP. Off Ball's Head, P.J.
46 VERRUCULARIA DICHOTOMA, Busk, Q. J. Micros. Soc., Ser. 1, p. 155, pl. XXXV., f. 1, 1a, 1861. Common on roots of Laminaria, Watson's Bay; Coogee Bay; Botany, (W.)
47 V. BINDERI, Harvey? Busk, Q. J. Micros. Soc., Ser. 1, 1861, p. 156, pl. XXXV., f. 2, 2a. Sydney, (Harvey?)

Family MEMBRANIPORIIDÆ.

48 ELECTRA PILOSA, (Linn.); McGillivray, P.Z., Vict., p. 106. Middle Harbour; Botany Bay, (W.)
49 E. MULTISPINATA, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. IX., p. 117, pl. v., f. 6. Botany Bay.
50 MEMBRANIPORA NITENS, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. VI., p. 85, pl. xi., f. 4. Common on Laminaria, Bondi Bay; Coogee Bay; Neutral Bay, (W)
51 M. CORBULA, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. VI., p. 378, pl. xvii., f. 6. Sow and Pigs Reef; Bottle and Glass Rocks, (Brazier).
52 M. PYRULA, Ann. & Mag. N.H., Ser. 5, Vol. VII., p. 31, pl. i., f. 2; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 3. Green Point, P.J., (Brazier).
53 M. LEVATA, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. x., p. 467, pl. xix., f. 6, 6a; Waters, l.c., p. 3. Green Point, P.J., (Brazier).
54 M. LINEATA, Linn., var.; Waters, l.c., p. 3, pl. ii., f. 16. Green Point, P.J., (Brazier).

55 M. MEMBRANACEA, Linn.; Busk, B.M.C., p. 56, pl. lxviii. Botany and Coogee Bays, (W.)

56 AMPHIBLESTRUM CURVICORNE, Busk, B.M.C., p. 60, pl. c., f. 3. Under stones, Watson's Bay, (W.)

57 A. SPINOSA, Quoy & Gaimard, Waters, Q. Jour. Geol. Soc., London, Vol. XLIII., p. 48, pl. vii., f. 28. Off Green Point, (W.)

58 A. FLEMINGII, var. MINAX, Busk, Q. J. Micro. Sci., Vol. VIII., p. 125, pl. xxv., f. 1. Sow and Pigs Reef, (Brazier).

Family MICROPORIDÆ.

59 THAIROPORA MAMMILLARIS, Lamx.; Hincks, Ann. & Mag. N.H., Ser. 5, Vol. VI., p. 88, p. x., f. 9.

60 T. ARMATA, McGill., Trans. Roy. Soc., Victoria, 1881, f. 6. On seaweed, P J.

61 DIPLOPORELLA CINCTA, Hutton, Tran. Roy. Soc., Tasm., 1877, p. 23; McGillivray, Trans. Roy. Soc., Victoria, Vol. XVII., p. 1, f. 1. Bondi Bay, (Brazier).

62 MICROPORA PERFORATA, McGill., Prod. Z., Vict., III., p. 29, pl. XXV., f. 2. Sow and Pigs Reef, (Brazier).

63 M. ELONGATA, Hincks, Ann. Mag. N.H., Ser. 5, Vol. VI., p. 380, pl. xvi., f. 4; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 8, pl. i., f. 21-22. Green Point, (Brazier).

Family CRIBRILINIDÆ.

64 CRIBRILINA MONOCEROS, Busk, B.M.C., p. 72, pl. xciii., f. 5-6. Under stones, Watson's Bay, (Brazier); Cabbage Tree Bay, Manly, (W.)

65 C. TUBULIFERA, Hincks, Ann. & Mag. N.H., Ser. 5., Vol. VIII., p. 56, pl. i., f. 7. Off Ball's Head, (Brazier).

66 C. CLITHRIDATA, Waters, Ann. & Mag. Nat. Hist., Ser. 5, Vol. XX., p. 187, pl. v., f. 1, pl. vi., f. 2. Sow and Pigs Reef, 3 – 4 fms., (Brazier).

67 C. RADIATA, Moll.; Hincks, Brit. Mar. Polyzoa, p. 185, pl. XXV., f. 1-9. Green Point.

Family MICROPORELLIDÆ.

68 MICROPORELLA VIOLACEA, Johnstone; Busk, Brit., M. Cat., p. 69, pl. lxxxvii., f. 1-2; pl. cx., f. 1. Bondi Bay, (Brazier).

69 M. CILIATA, Pallas; Busk, Brit. M. Cat., p. 73, pl. lxxiv., f. 1-2; pl. lxxvii., f. 3, 4, 5. Sow and Pigs Reef, (Brazier).

70 M. DECORATA, var. LATA, McG., Trans. Roy. Soc., Vict., Vol. XXI., p. 117, pl. iv., f. 5. Off Ball's Head; Watson's Bay, (Brazier).

71 M. MALUSII, Savigny, Busk, Brit. Mus. Cat., p. 83, pl. ciii., f. 1-4. Green Point, (Brazier).

72 M. COSCINOPORA, var. ARMATA, Waters, Quart. Jour. Geological Soc., Vol. XXXVII., p. 331, pl. xv., f. 25 ; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 5, pl. i., f. 1-5. Green Point, (Brazier).

73 ADEONELLOPSIS AUSTRALIS, McG., Trans. Roy. Soc., Victoria, Nov. 1885, pl. ii., f. 2-3. Off Green Point, (W.)

74 A. PARVIPUNCTA, McG., Trans. Roy. Soc., Victoria, Nov. 1885, pl. ii., f. 4. Under stones, Watson's Bay, (W.)

Family ESCHARIDÆ.

SCHIZOPORELLINÆ.

75 SCHIZOPORELLA JACKSONIENSIS, Busk, C.R., Vol. x., p. 164, pl. xix., f. 3. Off P.J., ("Challenger.")

76 S. MARSUPIFERA, Busk, Chall. Rep., Vol. x., p. 165, pl. xxii., f. 14. Bottle and Glass Rocks, (Brazier).

77 S. TRIANGULA, Hincks, Ann. & Mag., N.H., Ser. 5, Vol. VIII., p. 60, pl. ii., f. 4, 4a. Sow and Pigs Reef, 3 – 4 fms., (Brazier).

78 S. AURICULATA, Hincks, British Polyzoa, p. 260, pl. xxix., f. 3-9 ; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 9. Green Point, (Brazier).

79 S. MUCRONATA, Smith, Floridian Bryozoa, p. 45, pl. vii., f. 169; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 10, pl. ii., f. 9. Green Point, (Brazier).

80 S. FILOCINCTA, Reuss ; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 10, pl. i., f. 17-18. Green Point, (Brazier).

81 S. LATA, McG., Tran. Roy. Soc., Vict., Vol. XIX., p. 132, pl. i., f. 7 ; Waters, l.c., p. 10. Green Point, (Brazier).

82 S. SUBIMMERSA, var., Waters, l.c., p. 11, pl. ii., f. 10, 10 a, b, c. Green Point, (Brazier).

83 S. AMBITA, Waters, l.c., p. 11, pl. ii., f. 7. Green Point, (Brazier).

84 S. LAEVIGATA, Waters, l.c., p. 11, pl. ii., f. 8. Green Point, (Brazier).

85 S. SYDNEYENSIS, Waters, l.c., p. 12. Green Point, (Brazier).

86 S. UNISPINOSA, Waters, l.c., p. 15, pl. iii., f. 1-3. Green Point (Brazier).

87 S. TRISPINOSA, Johnstone, var. MUNITA, Hincks ; Waters, l.c., p. 16, pl. iii., f. 12-13, 23. Green Point, (Brazier).

88 S. MALLEOLUS, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. XIII., p. 361, pl. xiii., f. 5 ; Waters, l.c., p. 16, pl. iii., f. 14-15. Green Point, (Brazier).

89 S. NAPIERII, l.c., p. 17, pl. iii., f. 34-35. Green Point (Brazier.)

90 S. PRAESTANS, Hincks, Ann. & Mag., N.H., Ser. 5, Vol. x. Green Point, (Brazier).

91 S. SIGNATA, Waters, l.c., p. 17, pl. iii., f. 4-6. Green Point, (Brazier.)

92 S. OBSTRUCTA, Waters, l.c., p. 18, pl. iii., f. 7-8. Green Point, (Brazier).

93 S. TUBEROSA, (Reuss), Waters, Ann. & Mag. N.H., Vol. xx., Ser. 5, p. 192, pl. vi., f. 9 and 10. Bondi Bay; Botany, (Brazier). Very common on seaweeds all round the coast, (W.)

94 S. RIDLEYI, McG., Trans. Roy. Soc., Vict., Oct. 1882, p. 191, pl. i., f. 1. Off Green Point.

95 S. DIVISOPORA, Waters, Ann. & Mag. N.H., Vol. xx., Ser. 5, p. 193, pl. v., f. 4, pl. vi., f. 4. Off Bottle and Glass Rocks, 8 fms.; Sow and Pigs Reef, 3 – 4 fms., (Brazier).

96 S. CECILLII, Savigny, Egypte, pl. viii., f. 3; Hincks, Brit. Polyzoa, p. 269, pl. liii., f. 6. Very common, Watson's Bay, (W.)

97 S. HYALINA, Linn.; Busk, B.M.C., p. 84, pl. lxxxii., f. 1, 2, 3, pl. ci., f. 1-3 Common on Zosteria, Botany, (W.)

98 S. BISERIALIS, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. xv., p. 250, pl. vii.. f. 3; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 9, pl. ii., f. 11. Green Point, (Brazier).

99 HIPPOTHOA DIVARICATA, Busk, B.M.C., p. 30, pl. xviii., f. 3-4. On old bottles, shells &c., common Neutral Bay, P.J., (W.)

100 GEMMELLIPORA SP. P.J.

LEPRALINÆ.

101 LEPRALIA ELIMATA, Waters, l.c., p. 194, pl. v., f. 3, pl. vi., f. 22. Off Green Point, (Brazier).

102 L. VESTITA, Hincks, Ann. & Mag. N.H., Vol. xv., Ser. 5, p. 256, pl. ix., f. 9, var. AUSTRALIS, Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 12, pl. i., f. 19. Green Point, Sow and Pigs Reef, 3 – 4 fms., (Brazier). Both of the above species are common in dredgings, (W.)

103 L. TUBEROSA, Busk, Chall. Rep., Vol. x., pl. xvii., f. 7. Off P.J., "Challenger"; Watson's Bay, (W..

104 L. SETIGERA, Smith; McG., Trans. Roy. Soc., Vict., 1882, pl. i., f. 2. Under stones, Farm Cove; Mossman's Bay, (W.)

105 L. TORQUATA? Quoy & Gaimard, Voy. "Uranie," p. 610, pl. lxxxix., f. 7-8. Common on shells and stones at low water Mossman's Bay; Farm Cove and many other places, (W.)

106 L. RECTILINEATA, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. xi., p. 201, pl. vii., f. 5. Green Point, (Brazier).

107 L. DEPRESSA, Busk, Cat. Mar. Polyzoa, Brit. Mus., p. 75, pl. xci., f. 3- 4; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 13, pl. i., f. 13-16. Green Point, (Brazier).

108 L. Poissonii, Aud., var., Waters, l.c., p. 14, pl. ii., f. 17. Green Point, (Brazier).
109 Chorizopora Brogniartii, Savigny, Busk, B.M.C., p. 65, pl. lxxxi., f. 1-5. Off Green Point, (W.)

Mucronellinæ.

110 Porella marsupium, McG., Prod. Zool., Vict., pl. xxxv. Off Green Point, (W.)
111 Smittia Landsborovii, Johnst., form *personata*, Hincks, Ann. & Mag., Ser. 5, Vol. xiv., p. 283, pl. ix., f. 3. Under stones, Watson's Bay, (Brazier).
112 Porina larvalis, McG., Prod. Zool., Vict., iv., p. 30, pl. xxxvii., f. 5. Bondi Bay, (Brazier).
113 P. inversa, Waters, Ann. & Mag. N.H., Vol. xx., Ser. 5, p. 190, pl. iv., f. 23, pl. v., f. 5. Sow and Pigs Reef, 3-4 fms., (Brazier); very common in dredgings off Green Point, (W.)
114 Mucronella Ellerii, McG., var. biaviculata, Waters, l.c., p. 194, pl. v., f. 9. Green Point, (Brazier); var. Vultur, Hincks, Taylor Bay, (W.)
115 Rhynchopora crenulata, Waters, l.c., p. 195, pl. v., f. 7-8. Off Ball's Head, 12 fms., (Brazier).

Family CELLEPORIDÆ.

116 Lekythopora hystrix, McG., Trans. Roy. Soc., Vict., Oct. 1882 and Nov. 1884. Taylor Bay, (W.)
117 Cellepora mamillata, Busk, B.M.C., p. 87, pl. cxx., f. 3-5. Ball's Head, 12 fms.; Watson's Bay, (Brazier).
118 C. bispinata, Busk, B.M.C., p. 87, pl. cxx., f. 1-2. Mouth of Lane Cove River, 7 fms., (Brazier).
119 C. granum, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. viii., p. 127, pl. iii., f. 8. Taylor Bay, (W.); Green Point, (Brazier).
120 C. ovoidea, Savigny, Waters, l.c., p. 199, pl. vi., f. 14-19. Botany Bay, (W.); Vaucluse Point, 5 fms., (Brazier).
121 C. Jacksoniensis, Busk, Chall. Report, Vol. x., pl. xxx., f. 10. Off P.J., ("Challenger.")
122 C. tuberculata, Busk, l.c., pl. xxviii., f. 9. Off P.J., ("Challenger.")
123 C. apiculata, Busk, l.c., pl. xxix., f. 2. Off P.J., "Challenger."
124 C. bidenticulata, Busk, l.c., pl. xxx., f. 6. Off P.J., ("Challenger.")
125 C. albirostris, Smitt; Busk, C.R., Vol. x., p. 193, pl. xxxiv., f. 7, pl. xxxv., f. 3. Shark Island, (Brazier).
126 C. columnaris, Busk, C.R., Vol. x., p. 194, pl. xxix., f. 11, pl. xxxv., f. 16; Waters, Ann. & Mag. N.H., Ser. 6, July 1889, p. 19, pl. ii., f. 1-6. Green Point (Brazier.)

Family RETEPORIDÆ.

127 RETEPORA PHŒNICEA, Busk, B.M.C., p. 94, pl. cxxi., f. 1-2. Off Bottle and Glass Rocks, 8 fms., (Brazier); Green Point, (W.)

128 R. FORMOSA, McG., Prod. Zool., Vict., pl. xcvii., f. 4-6, and pl. xciv., f. 6. Watson's Bay, (W.); Bondi Bay. (Brazier.)

129 R. JACKSONIENSIS, Busk, Chall. Rept., Vol. x., pl. xxvii., f. 4. Off P.J., ("Challenger"; Taylor Bay, (W.)

130 R. FISSA, McG., Tran. Roy. Soc., Vict., Vol. IX., p. 140, and Vol. XIX., p. 291, f. 8; Prod. Zool. Vict., decade x., p. 17, pl. xcv., f. 12-16. Green Point, (Brazier).

131 R. PORCELLANA, McG., Prod. Nat. Hist., Vict., decade x., p. 15, pl. xcv., f. 1-6. Green Point, (Brazier).

132 R. PROFUNDA, McGillivray, Tran. Roy. Soc., Vict., Vol. XIX. p. 193, pl. ii., f. 8. P.J., (Brazier).

133 R. LONGIROSTRIS, Hincks, Ann. & Mag. N.H., Ser. 5, Vol. VIII., p. 125, pl. iv., f. 7-8. Green Point, (Brazier.)

Family SELENARIIDÆ.

134 BIPORA ANGULOPORA, Ten.-Woods, T. P. Soc., Adelaide, 1879-80, p. 5, pl. i., f. 1 a, 1 b, 1 c; Waters, Ann. & Mag. N.H., p. 199; Whitelegge, P.L.S., N.S.W., Vol. XI, 2 Ser. 1887, p. 243. Off P.J., (Brazier).

135 B. ELEGANS, d'Orb; Waters, l.c., p. 200, pl. v., f. 13-17; Whitelegge, l.c., p. 346. Off Green Point, (Brazier); Hunter's Beach, (W.)

136 B. PHILIPPINENSIS, Busk, Brit. M.C., p. 101, pl. cxiii., f. 1, 2, 3; Whitelegge, l.c., p. 341. Off Green Point, (W.)

137 SELENARIA PUNCTATA, Ten.-Woods, Trans. Royal Society, Adelaide, Vol. III., 1880, p. 9, pl. ii., f. 8. Off Green Point, (W.)

138 LUNULITES PETALOIDES, d'Orb.; Waters, Quart. Jour. Geol. Soc., 1883, p. 442, pl. xii., f. 11 a, b. c. Off Green Point, rare, P.J., (W.)

Sub-Order Cyclostomata.

Family CRISIIDÆ.

139 CRISIA EBURNEA, L. Hincks, Brit. Marine Polyzoa, p. 420, pl. lvi., f. 5-6. Shark Island, P.J., (Brazier).

140 C. EDWARDSIANA, d'Orb.; McGillivray, Prod. Zool. of Vict., decade iv., p. 37, pl. xxxix., f. 1. La Perouse; Botany Bay, (Brazier).

141 C. PUNCTIFERA, Haswell, P L.S., N.S.W., Vol. IV., p. 355. Manly Beach, P.J., (Dr. Haswell).

142 C. INCURVA, Haswell, l.c., p. 335. P.J., (Dr. Haswell).

Family IDMONEIDÆ.

143 IDMONEA RADIANS, Lam.; McGillivray, P.Z., of Victoria, vii., p. 30, pl. lxviii., f. 3. Under stones, Watson's Bay.
144 I. MILNEANA, d'Orb.; Busk, Cat. Cyclostomatous Polyzoa, p. 12, pl. xi. Off Green Point, (Brazier).
145 I. SERPENS, Linn.; Hincks, Brit. Mar. Polyzoa, p. 453, pl. lxi., f. 2-3, pl. lx., f. 2. Off Green Point, (Brazier).
146 I. INTERJUNCTA, McGillivray, Trans. Roy. Soc., Vict. (1885) Off Green Point, (Brazier).
147 I. PEDLEYI, Haswell, P.L.S., N.S.W., Vol. IV., p. 351. P.J. (P. Pedley).

Family TUBULIPORIDÆ.

148 TUBULIPORA FIMBRIA, Lam.; Hincks, Brit. Marine Polyzoa, p. 448, pl. lx., f. 3. Bondi Bay, (Brazier).
149 T. PULCHRA, McGillivray, Trans. Roy. Soc., Vict., Vol. XXI., p. 95, pl. ii., f. 1. Vaucluse Point, 5 fms., (Brazier).
150 STOMATOPORA INCRASSATA, Smitt; Hincks, Brit. Mar. Poly., p. 436, pl. lix., f. 2-3. Off Green Point, (Brazier).
151 FASCICULIPORA BELLIS, McGillivray, Trans. Roy. Soc., Vict., Vol. XX., p. 127, pl. i., f. 2. Bottle and Glass Rocks, (Brazier).
152 DIASTOPORA LATOMARGINATA, d'Orb.; Waters, Ann. & Mag. N.H., Ser. 3, p. 272, p. xxiv., f. 12. Green Point, (Brazier).
153 MESENTIPORA REPENS, Haswell, P.L.S., N.S.W., Vol. VI., p. 199; Waters, in Ann. & Mag. N.H., Vol. XX., (Ser. 5) p. 260, pl. vii., f. 6-7. Under stones, Watson's Bay, (Brazier).

Family DISCOPORELLIDÆ.

154 DISCOTUBIGERA? LINEATA, McGillivray, Trans. Roy. Soc., Vict., Vol. XXI., p. 96, pl. iii., f. 1. Under stones, Double Bay, (Brazier).
155 PUSTULIPORA PROBOSCIDEA, E. Forbes Johnston's British Zoophytes, 2nd Ed., p. 278, pl. xlviii., f. 4-6. Under stones, Cabbage Tree Bay, (Dr. Haswell).
156 P. INTRICARIA, Busk, Cat. Cyclos. Polyzoa, p. 22, pl. x., f. 1-4. P.J., (Dr. Haswell).
157 P. PARASITICA, Busk, l.c., p. 21, pl. xvii., f. 2-2. Parasitic on *Catenicella ventricosa*, P.J., (Dr. Haswell).
158 LICHENOPORA NOVÆ-ZELANDIÆ, Busk, Cat. Marine, Polyzoa, pt. iii., p. 32, pl. xxx., f. 2. Bondi Bay, (Brazier); P.J., (Dr. Haswell).
159 L. HOULDSWOSTHII, Busk, l.c., p. 33, pl. xxx., f. 4. Under stones, North side of Watson's Bay, (Brazier).

160 L. GRIGNONENSIS, Busk, Crag. Polyzoa, p. 116, pl. xx., f. 4; Waters, Ann. & Man. N.H., Vol. xx., (5 Ser.) p. 267, pl. vii., f. 1. Off Vaucluse Point, 5 fms., (Brazier); Bondi Bay, (W.)

161 L. CILIATA, Busk, Cat. Cyclost. Polyzoa, pt. iii., p. 31, pl. xxx., f. 6. Common on Fucus, P.J., (Dr. Haswell).

162 L. CALIFORNICA, Busk; Waters, Jour. Linn. Soc., Vol. xxii., p. 282, pl. xv., f. 1. Green Point, (Brazier).

163 L. POROSA, Haswell, P.L.S., N.S.W., Vol. vi., p. 354. P.J., (Dr. Haswell).

164 L. COMPLICATA, Haswell, l.c., p. 354. On Fucus, Clark Island, (Dr. Haswell).

165 L. TRIDENTATA, Haswell, l.c., p. 355. Common on Fucoids, P.J., (Dr. Haswell).

166 L. HISPIDA, Fleming; Hincks, Beit. Mar. Polyzoa, p. 473, pl. lxviii., f. 1-8.

167 L. VICTORIENSIS, Waters, Jour. Linn. Soc., Vol. xxii., p. 284, pl. xv., f. 4. Green Point, (Brazier).

Order CTENOSTOMATA.

Family VESICULARIDÆ.

168 AMATHIA BICORNIS, Tenison-Woods, P.R.S., Victoria, 1880; P.R.S., N.S.W., 1887, p. 84, pl. ii., (as *Serialaria spiralis*). The late Mr. Busk in the Challenger Report, Vol. xvii., p. 34, includes this species with *A. spiralis*, Lamx., with a query. The species are however very distinct. On seaweed washed ashore at Maroubra Bay, (W.)

169 A. CONVOLUTA, Lamx.' Hist. des Polyp. Flex., p. 160; Ten.-Woods, P.R.S., Vict., 1880. Washed ashore at Maroubra, Bay, (W.)

170 A. SPIRALIS, Lamx., Hist. d. Polyp. Flev., p. 161, pl. iv., f. 2. Clark Island, P.J.

171 A. TORTUOSA, Tenison-Woods, P.R.S, Vict., 1880, Vol. xvi., p. 89 (figure). Very common off Ball's Head,(Dr. Ramsay).

172 A. CORNUTA, Lamx., Hist. d. Polyp. Flex., p. 159, pl. iv., f. 1 a-b. Very common in P.J. and on the outer beaches after gales, (W.)

173 A. SP. This is a very common species, the branches are alternate, the zooecia in clusters of eight pairs, above each cluster there arises a pair of long jointed filaments, each one giving off a short lateral branch. On the beach at Maroubra Bay, (W.)

174 A. WILSONI, Kirkpatrick, Ann. & Mag. N.H., July 1888, Ser. 6, Vol. ii., pl. ii., f. 4, 4a. Frequently washed ashore at Coogee; Bondi, (W.)

175 A. BISERIATA, Krauss, Corallineen und Zoophyten der Sudsee 1837, p. 23, f. 1; Waters, Ann. & Mag. N.H., Ser. 5, Vol. XX., 1887, p. 264, pl. vi., f. 25. Mouth of Lane Cove River; Shark Island, 8 fms., (Brazier); Chowder Bay, (W.)

176 ZOOBOTRYON SP. On piles and rocks at low water Neutral Bay. This species appears to be periodic in its appearance, (W.)

Family CYLINDRŒCIIDÆ.

177 CYLINDRŒCIUM ALTUM? Kirkpatrick, Ann. & Mag. N.H., Ser. 6, Vol. II., 1888, pl. ii., f. 7, 7a. Common under stones, between tide marks Neutral Bay; Middle Harbour, (W.)

178 CRYPTOZOON WILSONI, Dendy, P.R. Vict., 1888, pls. i.-ii. Coogee Bay, on Amathia washed ashore after a very heavy gale, May 1889, (W.)

179 C. CONCRETUM, Dendy, l.c., pls. i.-ii. Attached to the base of a sponge washed ashore at Moroubra Bay, June 1889, (W.)

Group ENTOPROCTA.

Family PEDICELLINIDÆ.

180 PEDICELLINA CERNUA, Pallas; Hincks, Brit. Mar. Polyzoa, p. 565, pl. lxxxi., f. 1-3. Under stones, Farm Cove; Middle Harbour, (W.)

181 ASCOPODARIA FRUTICOSA, Hincks, Ann. & Mag. N.H., 5 Ser., Vol. XIII., p. 364, pl. xiv., f. 3; C.R. Vol. XVII., p. 42, pls. ix.-x. Found among seaweeds on the beach at Maroubra Bay, (W.)

182 LOXOSOMA SP. Attached to *Phascolosoma australis*, P.J. (W.)

Family PHORONIDÆ.

183 PHORONIS AUSTRALIS, Haswell, P.L.S., N.S.W., Vol. VII., p. 606 and 611, also Vol. IX., p. 1019. Common off Ball's Head, 15 fms., associated with an Anemone (*Cerianthus.*)

Class BRACHIOPODA.

ARTHROPOMATA, Owen=CLISTENTERATA, King.

Family TEREBRATULINÆ.

Sub-Family TEREBRATULINÆ.

184 TEREBRATULINA CANCELLATA, Koch.; Dr. T. Davidson, Monograph of Recent Brachiopoda, Trans. Linn. Soc., London, Vol. IV., 2 series, part i., p. 35, pl. vi., figs. 1-8, Old Man's Hat Point, Inner North Head, 7 fms., Sow and Pigs Reef, 3 fms., (Brazier).

185 WALDHEIMIA FLAVESCENS, Lamarck ; Davidson, l.c., p. 41, pl. vii., f. 6-19. Point Piper, Bottle and Glass Rocks, Shark Point, (Brazier); Mossman's Bay, (W.)

Sub-Family TEREBRATELLINÆ.

186 MEGASELLA CUMINGI, Davidson, l.c., pt. ii., p. 97, pl. xvii., figs. 23-22. Sow and Pigs Reef, (Brazier).

Sub-Family MEGERLINÆ.

187 MEGERLIA PULCHELLA, Sowerby, Thes. Conch., Vol. I., p. 360, pl. lxxi., f. 5-6. Off Bottle and Glass Rocks, (Brazier).
188 M. TRUNCATA, Linn.; Dall., American Jour. Conch., 1871, Vol, VI., p. 130. P.J.?

Sub-Family KRAUSSININÆ.

189 KRAUSSINA LAMARCKIANA, Davidson, l.c., pt. ii., p. 124, pl. 21, figs. 7-11. Double Bay, (Brazier) ; Farm Cove, Mossman's Bay, Taylor Bay, (W.)

LYOPOMATA.

Family CRANIIDÆ.

190 CRANIA SUESSII, Reeve, Conch. Icon., pl. i., f. 2 ; Davidson, l.c., pt. iii., p. 192, pl. xxvii., f. 13. Sydney, (Strange).

Family LINGULIDÆ.

191 LINGULA HIANS, Swainson ; Sow., Thes. Conch., Vol. I., p. 338, pl. lxvii., f. 4 ; Davidson, l.c., pt. iii., p. 216, pl. xxix., f. 12-13. Sow and Pigs Reef ; Outer North Head, P.J., (Brazier).

TUNICATA.

Order ASCIDIACEA.

Sub-Order Ascidiæ Simplices.

Family MOLGULIDÆ.

1 MOLGULA FORBESII, Herdman, Chall. Report, Vol. VI., p. 78, pl. v., f. 8-11. Off Shark Point; P.J.
2 M. INCONSPICUA, Stimpson, Proc. Acad. N. Sci., Phil., Vol. VII., 1855, p. 387. P.J.

Family CYNTHIIDÆ.

3 CYNTHIA CEREBRIFORMIS, Herd, l.c., p. 136, pl. xv., f. 5-7, P.J.
4 C. IRREGULARIS, Herd, C.R., p. 141, pl. xvi., f. 13-12. P.J.

5 C. COMPLANATA, Herd, C.R., p. 145, pl. xvii., f. 1-9. Off Ball's Head, P.J.
6 C. LÆVISSIMA, Stimpson, l.c., p. 387. P.J.
7 C. SUBULOSA, Stimpson, l.c., p. 387. P.J.
8 C. DUMOSA, Stimpson, l.c., p. 387. P.J.
9 C. PRÆPUTIALIS, Stimpson, l.c., p. 387. P.J.
10 BOLTENIA PACHYDERMATINA, Herd, C.R., Vol. VI., p. 89, pl. vii., f. 6-8. P.J.
11 B. SPINIFERA? Quoy & Gaim., Voy. "Astrolabe," Vol. III., p. 617, pl. xcii., f. 4. P.J.
12 B. AUSTRALIS, Quoy & Gaimard, Voy. "Astrolabe," Vol. III., p. 615, pl. xcii., f. 2-3. Common on piles in P.J.
13 STYELA GYROSA, Heller, C.R., p. 155. Off Ball's Head, P.J.
14 S. EXIGUA, Herd, C.R., p. 157, pl. xix., f. 5-6. P.J.
15 POLYCARPA TINCTOR, Quoy & Gaim., C.R., p. 170, pl. xxi., f. 16. Shark Island P.J.
16 P. VIRIDIS, Herd, C.R., p. 168, pl. xxi., f. 7-14. P.J.
17 P. LONGISIPHONICA, Herd, l.c., p. 177, pl. xxiii., f. 3-6. P.J.
18 P. RADICATA, Herd, l.c., p. 181, pl. xxiv., f. 3-5. Off Green Point, P.J.

Family ASCIDIIDÆ.

19 ASCIDIA PYRIFORMIS, Herd, l.c., p. 219, pl. xxxiv., f. 1-6. P.J.
20 A. SYDNEIENSIS, Stimpson, l.c., p. 387. P.J.
21 A. SUCCIDA, Stimp., l.c., p. 388. P.J.

Family CLAVELINIDÆ.

22 ECTEINASCIDIA? SP. P.J.
23 CLAVULINA SP. P.J.

Sub-Order II. Ascidiæ Compositæ.

Family BOTRYLLIDÆ.

24 BOTRYLLUS SP. Common under stones, Watson's Bay, (W.)
25 BOTRYLLOIDES SP. On seaweeds, off Green Joint.

Family DIDEMNIDÆ.

26 LEPTOCLINUM JACKSONI, Herdman, Chall. Report, Vol. XIV., p. 303, pl. xxxviii., f. 19-22. P.J.

Family DISTOMIDÆ.

27 COLLELA ELONGATA, Herd., l.c., p. 110, pl. xvi., f. 1-7. Under stones, Coogee Bay, (W.); off Ball's Head and Green Point.
28 C. MURRAYI, Herd., C.R., l.c., p. 115, pl. xvii., f. 1-11. Off P.J.

Family POLYCLINIDÆ.

29 POLYCLINUM FUNGOSUM, Herd., l.c., p. 190, pl. xiv., f. 15-23. Under rock ledges, Middle Harbour, P.J., (W.)

30 SIGILLINA AUSTRALIS, Savigny, Mem. Anim. sans Vert., 1816, p. 179, pl. iii., f. 2. Off Ball's Head, P.J.

31 PSAMMAPLIDIUM SPONGIFORME, Herd., l.c., p. 239, pl. xxxii., f. 1-5. Off Green Point, P.J.; Botany Bay.

32 P. SP. On stones at low water, Chowder Bay, (W.)

Sub-Order III. Ascidiæ Salpiformes.

Family PYROSOMIDÆ.

33 PYROSOMA SP. Occasionally washed ashore at Bondi and Coogee, (W.)

Order II. THALIACEA.

Family DOLIOLIDÆ.

34 DOLIOLUM DENTICULATUM, Quoy & Gaim., Zool., "Astrolabe," Vol. III., p. 599; Herd, C.R., Vol. XXVII., p. 44. Off P.J.

Family SALPIDÆ.

35 SALPA DEMOCRATICA-MUCRONATA, Forsk.; Herd., C.R., Vol. XXVII., p. 79. pl. viii., f. 1-10. Off P.J.

Order III. LARVACEA.

Family APPENDICULARIIDÆ.

36 APPENDICULARIA SP. Frequently obtained in the tow net, P.J.

PART II. FRESH-WATER INVERTEBRATES.

Sub-Kingdom PROTOZOA.

Class RHIZOPODA.

Order I. PROTOPLASTA.

Sub-Order I. Lobosa.

AMOEBA, Ehrenberg.

1 A. PROTEUS, Rösel, Insecten-Belustigung, Nürnberg, 1755, III., 622, Tab. ci., fig. A-T; Leidy, Fresh-water Rhizopods of North America, p. 30, pl. i., figs. 1-8. Frequent on the leaves of *Lemna*, *Azolla*, and *Utricularia*, Shea's Creek, and near Cook's River in a fresh-water swamp.

2 A. VERRUCOSA, Ehrenberg, Die Infusionsthierchen, 1838 126, Taf. VII., fig. 11 ; Leidy, F. Rhiz. N. Amer., p. 53, pl. iii., figs. 1-38. This species is rather rare. I have seen specimens from only one locality. On *Sphagnum*, Waterloo swamps.

3 A. RADIOSA, Ehrenberg, Infus., 1838, 128, Taf. VII., fig. 13 ; Abh. Ak. Wiss. Berlin, 1830, p. 39 ; Leidy, F. Rhiz. N. Amer., p. 58, pl. iv., figs. 1-18. Abundant in nearly all the localities mentioned in this list.

4 A. VILLOSA, Wallich, Ann. add Mag. Nat. Hist., 1863, XI., p. 287, pl. viii. Very common on dead leaves and decaying vegetable matter. The posterior villi are often hidden from view by the presence of foreign materials such as sand, Desmids, and Diatoms. Shea's Creek, Waterloo Swamps, and near Cook's River.

PELOMYXA, Greeff.

5 P. PALUSTRIS, Greeff, Archiv. für Micros. Anat., 1874, x., p. 51, Taf. III.-v. I found this species in abundance on floating masses of *Oscillatoria*, near Cook's River, and also at Waterloo opposite the end of Elizabeth Street. It attains a very large size, some specimens measuring $\frac{8}{100}$ inch in length, $\frac{3}{100}$ to $\frac{4}{100}$ broad.

DIFFLUGIA, Leclerc.

6 D. GLOBULOSA, Dujardin, Ann. Sc. Nat., 1837, VIII., 311, pl. ix., figs. 1 a-b ; Leidy, F. Rhiz. N. Amer., p. 96, pl. xv., figs. 25-31, pl. xvi., figs. 1-24. Frequent on *Sphagnum* in the Waterloo Swamp, and on *Nitella* in Parramatta Park.

7 D. PYRIFORMIS, Perty, Mittheil. Naturf. Gesells., Bern., 1848, 168 ; Leidy, F. Rhiz. N. Amer., p. 98, pl. x., figs. 1-5. Var. D. COMPRESSA, Carter, Ann. and Mag. Nat. Hist., 1864, XIII., 3rd series, p. 22, pl. i., figs. 5-6 ; Leidy, F. Rhiz. N. Amer., pl. xii., figs. 10-16. Frequent in Waterloo Swamps, Shea's Creek, and in Parramatta Park. Var. D. CORNUTA, Leidy, pl. xxii., fig. 17. Shea's Creek and in an old stone quarry in Moore Park. Var. D. VAS, Leidy, pl. xii., figs. 2-9. Same localities as the last named. The typical form appears to be rare, and I have seen only a few specimens ; other varieties are the most abundant.

8 D. URCEOLATA, Carter, Ann. & Mag. Nat. Hist., 1864, XIII, 3rd series. p. 27, pl. i., fig. 7 ; Leidy, p. 106, pl. xiv., figs. 1, 2, 5, 7, 10. Shea's Creek and Parramatta ; rare.

9 D. CORONA, Wallich, Ann. & Mag. Nat. Hist., 1864, XIII., 3rd series, p. 241, pl. xvi., figs. 19-20 ; Leidy, F. Rhiz. N. Amer., 117, pl. xvii., figs. 1, 2, 5, 6, 9. Waterloo Swamp, Shea's Creek, and Parramatta ; not common.

10 D. ACUMINATA, Ehrenberg, Infus., 1838, 131, Taf. IX., fig. 3; Leidy, F. Rhiz. N. Amer., 109, pl. xiii., figs. 1, 2, 8, 9, 11. Plentiful near Cook's River, Waterloo Swamp, Parramatta Park, and in Duck Creek, Clyde. Forms like figs. 14 and 20, in stone quarry, Moore Park; rare.

ARCELLA, Ehrenberg.

11 A. VULGARIS, Ehr, Abh. Akad Wiss. Berlin, 1830, p. 40, Taf. I., fig. 6; Leidy, 170, pl. xxvii., figs. 1, 2, 3, 11, 12, 25, 26, 27 and 28. Very abundant, almost everywhere, but a very variable species. The numbers of Leidy's figures given above indicate forms similar to those I have observed from different localities. I have seen forms like figs. 8, 9, 10, and 11 on pl. xxviii. in Leidy's book, from Shea's Creek; but such are not common.

12 A. DISCOIDES, Ehr., Monatsb. Ak. Wiss., Berlin, 1843, 139; Leidy, F. Rhiz. N. Amer., 173, figs. 14, 15, 16, 17, 18, 23, 28, 30, 31. This is perhaps the most common of any; it is found associated with *A. vulgaris* and other species in the greatest profusion.

13 A. DENTATA, Ehr., Abh. Akad. Wiss. Berlin, 1830, p. 40; Leidy, F. Rhiz. N. Amer., p. 177, pl. xxx., figs. 10-19. This very beautiful species is rather rare. I have found it only in two localities, in Shea's Creek and Cook's River. In the latter place I found it on *Utricularia;* in the former on the roots of grasses, sedges and floating plants. According to Leidy's figures and description the number of spines is from 9 to 12. The specimens observed by me had from 10 to 15, but their size and general characters are identical with those of European and American examples. The figures given in the "Micrographic Dictionary" and also in Dr. Carpenter's "Microscope and its Revelations," under the name of *A. dentata*, probably represent the var. *angulosa* of *A. vulgaris*.

14 C. ACULEATA, Ehr., Abh. Akad. Wiss. Berlin, 1830, p. 40; Leidy, F. Riz. N. Amer.. 181, pl. xxxi., figs. 1, 3, 4, 12, 14, 23, 24, 27. A very common and variable species both in the character of the materials by which the test is invested, and in the number of spines. Shea's Creek, Waterloo Swamps, Cook's River, and many other places.

COCHLIOPODIUM, Hertwig and Lesser.

15 C. BILIMBOSA, Auerbach, Zeits. Wiss. Zoologie, VII.. 1856, 374, Taf. XIX., figs. 1-13; Leidy, F. Rhiz. N. Amer., 184, pl. xxxii., figs. 1-25. Frequent on *Lemna* and *Azolla* in Shea's Creek, and on *Utricularia* near Cook's River.

Sub-Order II. Filosa.

Euglypha, Dujardin.

16 E. alveolata, Duj., Infusoires, 1841, 252, pl. ii., figs. 9-10; Leidy, 207, pl. xxxv., figs. 2, 3, 6, 11, 12, 13, 14, 15. This is very common and may be obtained in abundance on *Sphagnum*, in the Waterloo Swamps.

Trinema, Dujardin.

17 T. Enchelys, Ehr., Infus., 1838, 132, Taf. ix., fig. 4; Leidy, 226, pl. xxxix. This is a very widely distributed species. It is very abundant near Shea's Creek and in the Waterloo Swamps, near Botany.

Order II. HELIOZOA.

Actinophrys, Ehrenberg.

18 A. sol, Muller, Verm. Terrest. Fluv., 1773, p. 76; Leidy, F. Rhiz. N. Amer., p. 235, pl. lx. Common in nearly all the localities given in this list.

Heterophrys, Archer.

19 Heterophrys sp.? I have on several occasions seen a species closely allied to, if not identical with, one figured by Leidy on pl. xlvi., figs. 7, 8, 9, 13. It existed in a pool of water off Bunnerong Road, which is unfortunately now quite dry. In the same place I found also a colourless gregarious species resembling *Raphidiophrys elegans*, but much smaller and destitute of silicious spicules. The pseudopodia are highly sensitive and the creature retracts them somewhat suddenly if disturbed. It also readily assumes an amœboid form if subjected to pressure. I hope to re-examine both these forms on some future occasion.

Raphidiophrys, Archer.

20 R. elegans, Hertwig and Lesser, Archiv. für Mik. Anat. x., 1874; Leidy, F. Rhiz. N. Amer., 250, pl. xlii., figs. 1-6. This species is not common. I have seen it from two localities only, near Shea's Creek and in the stone quarry Moore Park.

Vampyrella, Cienkowski.

21 V. lateritia, Fresenius, Abh. Senck. Naturf. Gesells. ii., 1856-8, 218, Taf. x., figs. 13-19; Leidy, F. Rhiz. N. Amer., 253, pl. xlv., fig. 10-16. Frequent on *Spirogyra* and other floating Algæ; often free, but usually creeping over the surface of aquatic plants. Localities, Shea's Creek and near Cook's River.

ACTINOSPHAERIUM, Stein.

22 A. EICHHORNII, Ehrenberg, Bericht. Preus. Ak. Wiss., 1840, 198; Leidy, F. Rhiz. N. Amer., p. 259, pl. xli. A very common species, abundant in the Waterloo Swamp and many other places.

CLATHRULINA, Cienkowski.

23 C. ELEGANS, Cienk., Archiv. für Mik. Anat., III., 1867, 310, Taf. XVIII.; Leidy, F. Rhiz., N. Amer., 273, pl. xliv. This species is very common on *Nitella* and other fine-leaved plants. I have found it in plenty in nearly all the places I have visited in search of aquatic life. Australian specimens appear to be more luxuriant in their growth than European or American examples, the branched or compound state being the most prevalent, whilst the solitary form is rare.

Order III. FORAMINIFERA.

BIOMYXA, Leidy.

24 B. VAGANS, Leidy, F. Rhiz. N. Amer., 281, pls. xlvii., xlviii., figs. 5-12, and in Proc. Ac. Nat. Sc., Phil. 1875, 124. A few months ago this species was fairly abundant in my aquarium. I saw altogether about 20 specimens, many of which I examined with great attention. When first placed on a glass slip it often assumes a spherical shape, and remains motionless for some time. Then all at once it begins to send out pseudopodia from all sides, but ultimately they appear chiefly at the ends of the main body of protoplasm. The ramifications, extreme tenuity, and rapid movement of the pseudopodal processes are really marvellous. It is a difficult matter to trace out the actual termination of the branches, on account of their tenuity and ever changing movements. The whole organism looks like an animated spider's web. I have often noticed rounded masses at some distance from, but connected with, the main body by very slender threads. In these masses there was a continued rotation of the granular protoplasm around a large non-contractile vacuole. The time during which this semi-isolation continued, varied considerably, but in one instance it lasted for over an hour. When the return movement commenced the granular matter was conveyed away first, and afterwards the large vacuole broke up into a number of smaller ones, which moved away in quick succession, and were finally merged into the main protoplasmic body. The vacuoles are very numerous, and move about in all directions with the granular protoplasm. A spherical granular nucleus was seen in several specimens.

INFUSORIA.

Class FLAGELLATA.

Order FLAGELLATA-PENTOSTOMA.

Family CERCOMONADIDÆ.

25 Oikomonas quadratum, S. Kent, Infusoria, Vol. i., p. 254, pl. xiii., f. 71. On Algæ, in the old stone quarry, Moore Park, June 1889.

Family DENDROMONADIDÆ.

26 Anthophysa vegetans, ? Mull. ; Kent, Infusoria, Vol. i., p. 267, pl. xvii., f. 13-26, pl. xviii., f. 1-10. On Myriophyllum in Parramatta Park, August 1886.

27 A. socialis, From. ; S. Kent, Infusoria, Vol. i., p. 372, pl. xvii., f. 9-11. Duck Creek, Clyde ; Parramatta Park near the footbridge, Aug. 1886.

Family SPONGOMONADIDÆ.

28 Rhipidodendron splendidum, Stein. ; S. Kent, Infusoria, Vol. i., p. 285, pl. xvi., f. 1-3. Wooli Creek, Cook's River, rare, August 1886.

29 R. Huxleyi, S. Kent, Infusoria, Vol. i., p. 286, pl. xvi., f. 4-9. Very common on weeds, Waterloo Swamps, June 1889.

30 Spongomonas intestinalis, Cienk ; S. Kent, Infusoria, Vol. i., p. 287, pl. xi., f. 11-14. Duck Creek, Clyde ; Parramatta Park.

31 S. discus, Stein., S. Kent, Infusoria, l.c., p. 287, pl. xi., f. 10. Common on Nitella, Waterloo Swamps.

Order CHOANO-FLAGELLATA.

Several families of this order are represented in our fresh-water fauna, I have met with examples of the following genera *Monosiga*, *Codosiga*, *Astrosiga*, and *Salpingœca*.

Order FLAGELLATA-EUSTOMATA.

Family PARAMONADIDÆ.

32 Menoidium pellucidum, Perty ; Saville Kent, Infusoria, Vol. i., p. 374, pl. xx., f. 15-16. Duck Creek, Clyde.

Family ASTASIADÆ.

33 Astasia trichophora, Ehr. ; S. Kent, Infusoria, Vol. i., p. 376, pl. xx., f. 17-21. Wooli Creek, Cook's River ; Waterloo Swamps.

Family EUGLENIDÆ.

34 Euglena viridis, Ehr. ; S. Kent, Infusoria, Vol. i., p. 381, pl. xx., f. 29-51. Waterloo Swamps ; Wooli Creek.

35 E. spirogyra, Ehr. ; S. Kent, l.c., p. 382, pl. xx., f. 27-28. Wooli Creek, Cook's River.

36 E. oxyuris, Schmarda ; S. Kent, l.c., p. 383, pl. xx., f. 26. Waterloo Swamps.

37 E. acus, Ehr.; S. Kent, l.c., p. 383, pl. xx., f. 24-25. Waterloo Swamps ; Wooli Creek ; Moore Park.

38 Amblyophis viridis, Ehr.; S. Kent, l.c., p. 386, pl. xx., f. 63. Waterloo Swamps.

39 Phacus pleuronectes, Mull. ; S. Kent, l.c., p. 386, pl. xxi., f. 2-5. Waterloo Swamps.

40 P. triqueter, Ehr.; S. Kent, l.c., p. 387, pl. xx.. f. 1. Wooli Creek, amongst clusters of Oscillatoræ.

41 P. longicaudus, Ehr. ; S. Kent, l.c., p. 387, pl. xx., f. 6-7. Waterloo Swamps in Sphagnum pools.

42 Chloropeltis Hispidula, Eichwald ; S. Kent, l.c., p. 388, pl. xx., f. 8-9. Wooli Creek.

43 Trachelomonas volvocina, Ehr. ; S. Kent, l.c., p. 389, pl. xx., f. 14-16. Waterloo Swamps ; Moore Park.

44 T. hispida, Perty ; S. Kent, l.c., p. 389, pl. xx., f. 21-23. Waterloo Swamps ; Horse Pond, Moore Park.

45 T. armata, Ehr.; S. Kent, l.c., p. 390, pl. xx., f. 25. Wooli Creek.

46 Colacium vesiculosum, ? Ehr.; S. Kent, l.c., p. 395, pl. xxi., f. 34-34. Frequent on Entomostraca and on Hydra which is often so covered that at first sight it might be taken for *H. viridis*, being quite green from the number of specimens attached. Waterloo Swamps.

Family CHRYSOMONADIDÆ.

47 Uvella virescens, Ehr.; S. Kent, l.c., p. 406, pl. xxii., f. 25-26. Waterloo Swamps ; Wooli Creek.

48 Dinobryon sertularia, Ehr. ; S. Kent, Vol. i., p. 409, pl. xxii., f. 34-40. Very common in Sphagnum pools, Waterloo Swamps.

49 D. sp. A much larger species than the preceding. In shallow pools, Waterloo Swamps.

50 Synura uvella, Ehr. ; S. Kent, Vol. i., p. 412, pl. xxiii., f. 1-2. Wooli Creek ; Parramatta ; Waterloo Swamps.

Family ANISONEMIDÆ.

51 Anisonema grande, Perty ; S. Kent, l.c., p. 434, pl. xxiv., f. 26-30. Wooli Creek ; Waterloo Swamps,

52 Entosiphon sulcatus, Dujardin ; S. Kent, Vol. i., p. 438, pl. xxiv., f. 31-34. Rare ; Waterloo Swamps.

Order CILIO-FLAGELLATA.

Family PERIDINIIDÆ.

53 PERIDINIUM SP. Wooli Creek, Cook's River.
54 P. TABULATUM, Ehr.; S. Kent, Vol. I., p. 448, pl. XXV., f. 1-5, 55, 57. Waterloo Swamps; Duck Creek.

Class II. CILIATA.

Order HOLOTRICHA.

Family PARAMAECIIDÆ.

55 PARAMAECIUM AURELIA, Mull.; S. Kent, Vol. II., p. 483, pl. XXVI., f. 28-30. Off Bourke Street, Waterloo.

Family PRORODONTIDÆ.

56 NASSULA ORNATA, Ehr.; S. Kent, Vol. II., p. 483, pl. XXVI., f. 28-30. Wooli Creek; Duck Creek.

Family COLEPIDÆ.

57 COLEPS HIRTUS, Ehr.; S. Kent, Infusoria, Vol. II., p. 506, pl. XXVII., f. 3-4. Very common, Wooli Creek; Waterloo Swamps.
58 C. UNCINATUS, Claparede & Lachmann; S. Kent, Vol. II., p. 507, pl. XXVII., f. 6. Wooli Creek.

Family TRACHELIIDÆ.

59 TRACHELIUS OVUM, Ehr.; S. Kent, Infusoria, Vol. II., p. 552, pl. XXVII., f. 38. Very common Waterloo Swamps.
60 AMPHILEPTUS CYGNUS, C. & L.; S. Kent, l.c., Vol. II., p. 524. Moore Park at the back of Mount Rennie, in shallow grassy pools.
61 A. ANSER, Ehr.; S. Kent, l.c., Vol. II., p. 525, pl. XXVII., f. 39-40. Waterloo Swamps.
62 LOXOPHYLLUM MELEAGRIS, Ehr.; S. Kent, l.c., p. 528, pl. XXVII., f. 52.

Order HETEROTRICHA.

Family BURSARIIDÆ.

63 BURSARIA TRUNCATELLA, Muller; S. Kent, l.c., p. 576, pl. XXIX., f. 1-2. In shallow grassy pools, Botany; Waterloo.

Family SPIROSTOMIDÆ.

64 SPIROSTOMUM AMBIGUUM, Ehr.; S. Kent, l.c., p. 586, pl. XXIX., f. 13-14. Wooli Creek, Waterloo Swamps.

Family STENTORIDÆ.

65 STENTOR POLYMORPHUS, Mull.; S. Kent, l.c., p. 590, pl. xxx., f. 10-20. Waterloo Swamps ; Duck Creek ; Wooli Creek.

66 S. BARRETTI, Barrett ; S. Kent, l.c., p. 593, pl. xxx., f. 21. Duck Creek ; Parramatta on Myriophyllum.

67 S. IGNEUS, Ehr. ; S. Kent, l.c., p. 594, pl. xxx., f. 1-4. Very common in the Horse Pond, Moore Park, on water weeds and stones, which are sometimes completely covered with this beautiful species.

68 S. CÆRULEUS, Ehr. ; S. Kent, l.c., p. 593. Waterloo Swamps.

Order PERITRICHA.

Family HALTERIIDÆ.

69 STROMBIUM CLAPAREDI, S. Kent, l.c., p. 634, pl. xxxii., f. 46. Among Conferva, Waterloo Swamps, abundant.

Family GYROCORIDÆ.

70 UROCENTRUM TURBO, Mull. ; S. Kent, l.c., p. 641, pl. xxxiii., f. 7-10 Common in stagnant pools, Waterloo Swamps.

Family VORTICELLIDÆ.

71 RHABDOSTYLA SP. Common on *Cyclops australis*, Waterloo Swamps.

72 VORTICELLA NEBULIFERA, Ehr.; S. Kent, l.c., p. 673, pl. xxxiv., f. 20, pl. xxxv., f. 32-34, pl. xlix., f. 1. Common on Myriophyllum, Waterloo Swamps.

73 V. CAMPANULA, Ehr. ; S. Kent, l.c , p. 678, pl. xxxiv., f. 36. Horse Pond, Moore Park.

74 V. CHLOROSTIGMA, Ehr. ; S. Kent, l.c., p. 686, pl. xlix., f. 33. Horse Pond, Moore Park.

75 V. MONILATA, Tatem ; S. Kent, l.c., p. 688, pl. xxxv., f. 27, pl. xlix., f. 39. Duck Creek, Clyde.

76 V. DILATATA, From. ; S. Kent, l.c., p. 681, pl. xlix., f. 19. Parramatta,

77 CARCHESIUM POLYPINUM, Linn. ; S. Kent, l.c., p. 690, pl. xxxv., f. 30-31, pl. xxxvi., f. 1-8. Off Bourke Street, Waterloo, at the back of the Public School.

78 ZOOTHAMNIUM SP. Waterloo Swamps.

79 EPISTYLIS PLICATILIS, Ehr.; S. Kent, l.c., p. 701, pl. xxxviii., f. 6-8, pl. xxxix., f. 12-15. In Alderson's Dam, Redfern, on grass leaves, 1884.

80 OPERCULARIA NUTANS, Ehr.; S. Kent, l.c., p. 710, pl. xxxix., f. 22-23. Wooli Creek ; Waterloo Swamps.

81 O. ARTICULATA, Ehr.; S. Kent, l.c., p. 711, pl. xxxix., f. 24-26.

82 VAGINICOLA CRYSTALLINA, Ehr. ; S. Kent, l.c., p. 715, pl. xl., f. 1. On Algæ, Waterloo Swamps.

83 THURICOLA VALVATA, Wright, S. Kent, l.c., p. 718, pl. iv., f. 4-5. On Myriophyllum, Waterloo Swamps.
84 COTHURNIA SP. Duck Creek, Clyde.
85 PYXICOLA FURCIFER, Hutton, Jour. Roy. Micro. Soc., Vol. I., 1878, p. 49, woodcut; S. Kent, l.c., p. 727. Parramatta Park, on Myriophyllum.

Order HYPOTRICHA.

Family LITONOTIDÆ.

86 LITONOTUS FASCIOLA, Ehr.; S. Kent, l.c., p. 743, pl. xlii., f. 5-11. Waterloo Swamps.

Family CHLAMYDODONTIDÆ.

87 LOXODES SP. Waterloo Swamps.

Family OXYTRICHIDÆ.

88 STICHOTRICHIA SECUNDA, Perty; S. Kent, l.c., p. 776, pl. xliv., f. 1-2. Duck Creek, Clyde.
89 OXYTRICHA PLATYSTOMA, Ehr.; S. Kent, l.c., p. 787, pl. xlv., f. 8-9. Wooli Creek.
90 HISTRIO STEINII, Mull.; S. Kent, l.c., p. 45, f. 13-14. Waterloo Swamps.
91 STYLONYCHIA MYTILUS, Ehr.; S. Kent, l.c., p. 790, pl. xlv., f. 1, and 18-22. Waterloo Swamps.

Family EUPLOTIDÆ.

92 EUPLOTES PATELLA, Ehr.; S. Kent, l.c., p. 798, pl. xliv., f. 23-25. Waterloo Swamps.
93 E. CHARON, Mull.; S. Kent, l.c., p. 799, pl. xliv., f. 26-29. Duck Creek; Waterloo Swamps.

Class III. TENTACULIFERA.

Order TENTACULIFERA-SUCTORIA.

Family ACINETIDÆ.

94 PODOPHRYRA FIXA, Mull.; S. Kent, l.c., p. 813, pl. xlvi., f. 24-30. On Algæ, Waterloo Swamps; Parramatta.
95 P. ELONGATA, C. & L.; S. Kent, l.c., p. 820, pl. xlviii., f. 21-22. Wooli Creek, Cook's River.
96 P. MOLLIS, S. Kent, l.c., p. 821, pl. xlvi., f. 53-56. Wooli Creek; Parramatta.
97 P. CYCLOPUM, C. & L.; S. Kent, l.c., p. 819, pl. xlvi., f. 23. On *Cyclops australis*, Waterloo Swamps.

CŒLENTERATA.

PORIFERA.

Order CORNUSPICULÆ.

Family SPONGILLIDÆ.

1 SPONGILLA SCEPTROIDES, Haswell, P.L.S., N.S.W., Vol. VII., p. 209. A green species, abundant in the Water Reserve off Bunnerong Road, (W.)

2 S. SP. Water Reserve, Botany.

3 TUBELLA NIGRA, R. v. Lendenfeld, Zool. Jahrbuchern, Band II., 1887, p. 91, pl. vi., f. 1-5. This species is not naturally black as the name would imply; the specimen described was stained with black mud, the true colour being a dirty yellow. Moore Park, in a pond now filled up; Wooli Creek, Cook's River, (W.)

Order HYDROMEDUSÆ.

Family HYDRIDÆ.

4 HYDRA HEXACTINELLA, R. v. Lendenfeld, P.L.S., N.S.W., Vol. X., p. 679, pl. xlviii., f. 1-4; Zool. Jahrbuchern, 1887, p. 96, pl. vi., f. 13-14. Shea's Creek; Moore Park; Parramatta, (W.)

Family BLASTOPOLYPIDÆ.

5 CORDYLOPHORA WHITELEGGEI, R. v. Lendenfeld, Zool. Jahrbuchern, 1887, p. 97, pl. vi., f. 11-12. On the roots of Myriophyllum in the river, Parramatta Park near the footbridge, (W.)

Sub-Kingdom VERMES.

PLATYHELMINTHES.

Order TURBELLARIA.

Sub-Order Rhabdocoela.

B. PHARYNGEA.

Family ACMOSTOMEA.

1 ACOMOSTOMUM DENTICULATUM, Schmarda, Neue Wirbellose Thiere I., p. 3, pl. i., f. 1, 1a. Cook's River.

Family MESOPHARYNGEA.

2 MESOPHARYNX DIGLENA, Schmarda, l.c., p. 4, pl. i., f. 12. Sydney and Parramatta.

Family DEROSTOMEA.

3 VORTEX TRIGONOGLENA, Schmarda, l.c., p. 6, pl. i., f. 5. Common in Sphagnum pools, Waterloo Swamps. This is a very pretty greenish coloured species.

4 DEROSTOMUM TRUNCATUM, Schmarda, l.c., p. 6, pl. i., f. 8. Illawarra.

C. APHARYNGEA.

Family GYROSTOMEA.

5 STRONGYLOSTOMUM METOPOGLENUM, Schmarda, l.c., p. 9, pl. ii., f. 21. Sydney.

6 MESOSTOMUM SP. Waterloo Swamps.

E. AGGREGATA.

7 CATENULA BINA, ? Schmarda, l.c., p. 12, pl. ii., f. 29. Bathurst (Schmarda). There is a species of this genus very common in Wooli Creek, Cook's River.

Order TREMATODA.

The larvæ (Cercaria) of species of Distoma are very common in Parramatta Park.

NEMATHELMINTHES.

NEMATODA.

Family GORDIDÆ.

There are at least two species of the genus Gordius found in the Botany Swamps.

Family ANGUILLULIDÆ.

The free-swimming nematoids are common in fresh-water, and the species are numerous.

Class ANNELIDA.

Order OLIGOCHAETA.

Sub-Order Limicolæ.

Family ICHTHYDIIDÆ.

8 CHÆTONOTUS LONGICAUDATUS, Tatem, Q.J. Micro. Sci., 1867, p. 251, pl. x., f. 7. Wooli Creek, Cook's River.

9 C. LARUS, Mull.; Gosse, Intellectual Observer, Vol. v., p. 393, pl. i., f. 1-3. Waterloo Swamps.

10 C. SQUAMMATUS, Duj.; Gosse, Intellectual Observer, Vol. v., p. 396, pl. i., f. 6. Waterloo Swamps.
11 ICHTHYDIUM sp. Wooli Creek; Waterloo Swamps.

Family NAIDIDÆ.

12 ÆOLOSOMA SP. A very pretty species with salmon coloured globules in the body; very common in the Waterloo Swamps.
13 NAIS SP. Waterloo Swamps and at Wooli Creek.

Family ENCHYTRAEIDÆ.

14 CHAETOGASTER SP. Very common on, and associated with Physa; Waterloo Swamps. For an account of this genus see Trans. Linn. Soc., Vol. XXVI., p. 631, pl. xlviii., xlix.; and Q. Jour. Micro. Sci., 1869, p. 272, both by E. Ray Lankester.

Family NAIDOMORPHA.

15 DERO LATISSIMA, ? Bousfield, Jour. Linn. Soc., Vol. xx., p. 104, pl. xiv., f. 8. On water weeds, Waterloo Swamps.
16 D. SP. This species constructs a tube of sand grains and the empty tests of Arcella and other Rhizopods. The branchiæ consist of four long cylindrical ciliated processes and two which appear to be without cilia, of the same shape but slightly longer. I also saw in one specimen what I took to be a red eye spot on the head but I am not quite certain about it.

Family SAENURIDÆ.

17 TUBIFEX SP. Abundant in Shea's Creek, Waterloo Swamps.

Sub-Class HIRUDINEA.

18 HIRUDO QUINQUESTRIATA, Schmarda, Neue Wirbellose Thiere, p. 2, pl. xvi., f. 140. Wooli Creek, Cook's River. This is the Medicinal Leech of the Sydney Chemists.

ROTIFERA.

Order I. RHIZOTA.

Family FLOSCULARIADÆ.

1 FLOSCULARIA SP. This species closely allied to *F. Coronetta*, Cubitt, but differs from that species in two important characters, i.e., the coronal lobes are equal and triangular in section, whilst those of *F. coronetta* are rounded and unequal. Very common, Moore Park; Clyde, and Parramatta.

2 F. ORNATA, Ehrenberg; Hudson & Gosse, Rotifera, p. 50, pl. i., f. 9; Pritchard, Infusoria, 1861, p. 675, pl. xxxii., f. 384-385, pl. xl., f. 25-26. Near Cook's River; Parramatta on Nitella, Utricularia

3 F. CORNUTA, Dobie, Ann. & Mag. N.H., 2 Ser., Vol. IV., 1849, p. 233, pl. vi.; Hudson & Gosse, Rotifera, p. 51, pl. i., f. 7. Abundant on Utricularia, near Cook's River; Parramatta on Myriophyllum; Waterloo Swamps on Nitella.

4 F. CYCLOPS, Cubitt, Monthly Micro. Jour., Vol. VI., 1871, p. 83, pl. xciii., f. 1-3. I am not quite satisfied as to this species being identical with the British one, it requires further examination; Waterloo Swamps, not common.

5 F. CAMPANULATA, Dobie, Ann. & Mag. Nat. Hist., 2 Ser., Vol. IV., 1849, p. 233, pl. vi.; Hudson & Gosse, p. 52, pl. i., f. 1; Pritchard's Infusoria, p. 675. Waterloo Swamps; Parramatta and near Cook's River; very common on fine leaved water plants.

6 F. AMBIGUA, Hudson, Jour. Roy. Micro. Soc., 2 Ser., Vol. III., 1883, p. 163, pl. iv., f. 1; Hudson & Gosse, Rotifera, p. 53, pl. i., f. 2. On Utricularia near Cook's River, rare.

7 F. SP. This form is allied to *F. algicola*, Hud., and lives like it in clusters of Algæ on Myriophyllum in the river, Parramatta Park.

8 F. MILLSII? I sent short account of this species to Dr. C. T. Hudson, F.R.S., who informs me that it is probably *F. Millsii*, a species which has also been found in Canada, N. America. I have not seen any description, so that there is no reference. Our species closely resembles Stephanoceros and has a short rigid footstalk. In a pond off Bunnerong Road about one mile beyond the Racecourse, also in the water reserve on the Kensington Estate.

9 STEPHANOCEROS EICHHORNII, Ehrenberg; Pritchard, Infusoria p. 661, pl. xxxii., f. 383, pl. xxxvii., f. 1-4; Hudson & Gosse, Rotifera, p. 60, pl. iv., f. 1. I have not found this species, but Mr. G. D. Hirst says that he has seen specimens from a pond in Moore Park.

Family MELICERTADÆ.

10 MELICERTA RINGENS, Schrank; Pritchard, Infusoria, p. 672, pls. xxxii., xxxvi., xxxvii.; Hudson & Gosse, Rotifera, p. 70, pl. v., f. 1. Common on Nitella and other fine leaved plants, Waterloo Swamps.

11 M. CONIFERA, Hudson, Rotifera, p. 72, pl. v., f. 2. Abundant in Duck Creek, Clyde, on Utricularia; in the river, Parramatta Park on Myriophyllum, Dec. 1885.

12 M. JANUS, Hudson, Jour. Roy. Micro. Soc., 2 Ser., Vol. I., 1881, p. 1, pl. i.; Hudson & Gosse, Rotifera, p. 74, pl. vi., f. 1. I found this species in abundance on Myriophyllum in a short arm of Shea's Creek, at the back of the Waterloo Dog Kennels during 1883 and 1884. I have not seen it since although I have repeatedly searched for it.

13 LIMNIAS CERATOPHYLLI, Schrank; Prit., Infusoria, pl. xxxii., f. 388-392, pl. xxxvi., f. 2; Hudson & Gosse, Rotifera, p. 75, pl. vi., f. 1. Moore Park in an old stone quarry; off Bourke Street opposite Forsyth's Rope Works; Parramatta Park, very common.

14 L. ANNULATUS, Bailey; Cubitt, Monthly Micro. Jour., Vol. VI., 1871, p. 165, pl. xcviii.; Hudson & Gosse, Rotifera, p. 77, pl. vi., f. 2. Near Cook's River on Utricularia, rare.

15 CEPHALOSIPHON LIMNIAS, Ehr.; Hudson & Grosse, Rotifera, p. 77, pl. vi., f. 3. Moore Park, opposite the end of Cleveland Street, (pond now filled up); Waterloo Swamps frequent.

16 ŒCISTES CRYSTALLINUS, Ehr.; Hudson & Gosse, Rotifera, p. 80, pl. vii., f. 3. Moore Park; Water Reserve off Bunerong Road; Parramatta Park, very common.

17 Œ. INTERMEDIUS, Davis, Trans. Roy. Micr. Soc., Vol. XV., 1867, p. 14, pl. i., f. 1-4. On Chara in a waterhole between Clyde and Granville near the railway on the left hand side going from Sydney.

18 Œ. LONGICORNIS, Davis; Hudson & Gosse Rotifera, p. 82, pl. vii., f. 6. On Myriophyllum Parramatta Park; Waterloo Swamps, frequent.

19 Œ. PILULA, Wills; Hudson & Gosse, Rotifera, p. 82, pl. vii., f. 2. Water Reserve, off Bunnerong Road, rare.

20 Œ. SP. I found this species on Nitella in brackish water at Cook's River, it somewhat resembles *Œ. intermedius*.

21 Œ. SP. This species possesses a tube like that of *Œ. longicornis*, but it is larger and the upper portion is pliable and is drawn in at the apex when the Rotifer retires in its tube so that it acts like a valve and effectually closes the aperture.

22 Œ. SP. This species lives as a commensal in clusters of Algæ on Myriophyllum in the river, Parramatta Park; it resembles *Œ. crystallinus*, but is much smaller and the foot is longer in proportion to its size.

23 Œ. PTYGURA, Ehr.; Hudson & Gosse, Rotifera, p. 81 and p. 134, pl. xxx., f. 3. I found this species inhabiting the empty tubes of *Œ. intermedius*, in the waterhole between Clyde and Granville. I also saw some attached to Chara without any trace of tube.

24 LACINULARIA SOCIALIS, Ehrenberg, Die Infus., 1838, p. 403, pl. xliv., f. 4 ; Huxley, Trans. Micr. Soc., Vol. I., new series, 1853, p. 1, pl. i., pl. xi., f. 20-25 ; Pritchard, Infusoria, p. 671, pl. xxxvii., f. 19-25 ; Hudson & Gosse, Rotifera, p. 85, pl. viii., f. 1. Common on weeds in the river, Parramatta Park, and in creeks and waterholes beyond the park near the Lunatic Asylum.

25 L. PEDUNCULATA. This is a fine new species which may possibly form the type of a new genus when fully investigated. It forms social clusters nearly $\frac{1}{4}$ of inch in diameter the clusters are situated on the end of a long peduncle or stalk which is as long or slightly longer than the diameter of the cluster. The foot of each rotifer is drawn out into a fine filament, the united filaments forming the peduncle. Attached to the leaves and stems of Myriophyllum in a waterhole behind Mount Steel, Moore Park about 50 yards past the spot where some boring for coal took place some years ago ; also in the water reserve off Bunnerong Road on the right hand side going towards Waterloo Swamps. I have only seen this species on two occasions; it appears to live in shallow grassy pools, and only lives for a short time. October 1883, August 1887.

Order II. BDELLOIDA.

Family PHILODINADÆ.

26 PHILODINA CITRINA, Ehr. ; Hudson & Gosse, Rotifera, p. 101, pl. ix., f. 6. In a rock-pool Moore Park behind the Shooting Butts.

27 P. ACULEATA, Ehr.; Hudson & Gosse, Rotifera, Vol. I., p. 101, pl. ix., f. 5. The specimens seen by me had the spines placed in the position given in the plate referred to. Waterloo Swamps, June 1889.

28 P. ROSEOLA, Ehr.; Hudson & Gosse, Rotifera, p. 99, pl. ix., f. 4. In a rock-pool overlooking the sea at Coogee.

29 ROTIFER MACROCEROS, Gosse, Ann. & Mag. Nat. Hist., 2nd Ser., Vol. VIII., 1851, p. 202 ; Hudson & Gosse, Rotifera, p. 105, pl. x., f. 5. Clyde ; Parramatta.

30 R. SP. This is a species which I have only met with once, it is rather larger than the preceding species and attaches itself to weeds ; the eggs of this form are stalked and fastened to the stems of plants like those of Corixa (an aquatic insect) which they resemble in shape. In Duck Creek, Clyde, and Wooli Creek near Cook's River.

31 R. VULGARIS, Schrank ; Hudson & Gosse, Rotifera, p. 104, pl. x., f. 2. Moore Park ; Waterloo Swamps and many other places.

32 ACTINURUS NEPTUNIUS, Ehr. ; Hudson & Gosse, Rotifera, p. 108, pl. x., f. 6 ; Pritchard, Infusoria, p. 704, pl. xxxv., f. f. 481-4. Waterloo Swamps ; Wooli Creek, Cook's River.

Order III. PLOÏMA.

Sub-Order II-loricata.

Family MICROCODIDÆ.

33 MICROCODON CLAVUS, Ehr.; Hudson & Gosse, Rotifera, p. 118, pl. xi., f. 1; Pritchard, Infusoria, p. 665, pl. xxxii., f. 371-2. In shallow waterholes behind Mount Steel, Moore Park ; rare, Nov. 18, 1886.

Family ASPLANCHNADÆ.

34 ASPLANCHNA EBBESBORNII, Hudson, Jour. Roy. Micro. Soc., 2 ser., Vol. III., 1883, p. 621, pl. ix.-x. ; H. & G., Rotifera, p. 120, pl. xi, f. 3. Abundant in the large dam near the end of Elizabeth Street, South, Nov. 3, 1886.

35 A. BRIGHTWELLII, Gosse, Ann. & Mag. N.H., 2 Ser., Vol. VI., 1850, p. 23; H. & G., Rotifera, p. 122, pl. xii., f. 1. In the same locality as the preceding, Nov. 3, 1886.

36 A. SP. In an old stone quarry, Moore Park, behind the Cricket Ground, Oct. 1883, Nov. 1887. It is possible this may be *A. priodonta*, Gosse.

37 A. MYRMELEO, Ehr. ; Pritchard, Infusoria, p. 682, pl. xxxiii., f. 418. This species feeds on Entomostraca. Botany Swamps ; and in the dam at the end of Elizabeth Street, very abundant, Aug. to Nov. 1886.

38 SACCULUS VIRIDIS, Gosse, Ann. & Mag. N.H., 2 Ser. Vol. VIII., 1851, p. 198 ; Hudson & Gosse, Rotifera, p. 124, pl. xi., f. 2. In boggy pools amongst bog-moss (Sphagnum) Waterloo Swamps, about a quarter of a mile from the end of Elizabeth Street and close to a small creek, Aug. 1, 1886.

Family SYNCHAETADÆ.

39 SYNCHAETA TREMULA, Ehr. ; Pritchard, Infusoria p. 686; Hudson & Gosse, Rotifera, p. 128, pl. xiii., f. 2. In the same locality as the preceding, Nov. 1886.

Family TRIARTHADÆ.

40 POLYARTHRA PLATYPTERA, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 3, pl. xiii., f. 5. Waterloo Swamps ; Botany ; Parramatta ; common, Aug. to Nov., 1886.

41 TRIARTHRA LONGISETA, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 6, pl. xiii., f. 6. Parramatta Park; Waterloo Swamps very common, Aug. 24, 1886.

Family HYDATINADÆ.

42 HYDATINA SENTA, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 9, pl. xiv., f. 1. In shallow pools corner of Bourke Street and Botany Road; off Botany Road in swampy ground near the water-works, August 28, 1886.

43 H.? SP. A very common species having a great resemblance to *H. senta*, but smaller and the corona is very different in structure. Moore Park and many other places.

Family NOTOMMATADÆ.

44 TAPHROCAMPA ANNULOSA, Gosse, Ann. & Mag. N.H., 2 Ser., 1851, p. 199; Hudson & Gosse, Rotifera, Vol. II., p. 16, pl. xvii., f. 12. Moore Park; Waterloo Swamps; and Wooli Creek.

45 T. SELENURA,? Gosse, Jour. Roy. Micro. Soc., 1887, p. 1, pl. i., f. 1. Waterloo Swamps, rare.

46 TRIOPHTHALMUS DORSUALIS, Ehr.; Eckstein, Zeitschrift fur Wissensch., Zoologie, Band XXXIX., 1883, p. 368, pl. XXV., f. 31. I am not sure as to our species being the same as Ehrenberg's, as there is some slight difference in the position of the lateral cervical eyes. In Eckstein's figure they are represented as being slightly in advance of the central eye, whilst in our species they are a considerable distance behind and placed nearer together than those figured by Eckstein. In Sphagnum pools Waterloo Swamps about a quarter of a mile from, but opposite the end of Elizabeth Street South, July 1886.

47 NOTOMMATA AURITA, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 21, pl. xvii., f. 6; Eckstein, Zeits. fur Wissen., Zoologie, Band XXXIX., 1883, p. 360, pl. XXV., figs. 23-27. In a note in "The Rotifera," Vol. II., p. 21, Mr. Gosse states that neither himself, Dr. Hudson, nor Dr. Plate had ever seen the frontal eyes as described and figured by Eckstein. I may say that I have seen them often in what I take to be *N. aurita*, there is no difficulty in observing them, they are very conspicuous and at once strike the eye of the observer when the specimen is seen from the dorsal surface. Common at Botany, and in the same locality as the preceding species. July 1886.

48 N. TRIPUS, Ehrenberg; Hudson & Gosse, Rotifera, Vol. II., p 22, pl. xvii., f. 4. Moore Park, in the old stone quarry.

49 N. PILIARIUS, Gosse, Rotifera, Vol. II., p. 23, pl. xvii., f. 5. In the same place as the preceding. July 1886.

50 N. LACINULATA, Ehr. ; Hudson & Gosse., Vol. II., p. 26, pl. xvii., f 9. In a pool in the Botanical Gardens.

51 N. COLLARIS, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 27, pl. xvi., f. 6. In Sphagnum pools, Waterloo Swamps, Aug. 1886.

52 N. WERNECKII, Ehr.; Pritchard, Infusoria, p. 683. In the tubes of an Algæ (Vaucheria sp.), Moore Park behind Mount Steel.

53 N. FORCIPATA, Ehr. ; Hudson & Gosse, Rotifera, Vol. II., p. 23, pl. xviii., f. 1. Sphagnum pools, Waterloo Swamps.

54 N. CYRTOPUS, Gosse, Rotifera, Vol. II., p. 22, pl. xvii., f. 7. Waterloo Swamps, June 1889.

55 COPEUS LABIATUS, Gosse, Rotifera, Vol. II., p. 28, pl. xvi., f. 1. In a short arm of Shea's Creek, Waterloo Swamps, rare.

56 C. SPICATUS, Hudson, Jour. Roy. Micro. Soc., 2 Ser., Vol. V., 1885, p. 612, pl. xii., f. 5 ; Hudson & Gosse, Rotifera, Vol. II., p. 29, pl. xvi., f. 2, In Sphagnum pools, Waterloo Swamps, rare.

57 C. PACHYURUS, Gosse, Rotifera, Vol. II., p. 31, pl. xvi., f. 4. In pools off Bunnerong Road, at the back of the Race Course, July 1886.

58 C. CAUDATUS, Collins ; Hudson & Gosse, Rotifera, Vol. II., p. 33, pl. xvi., f. 5. Duck Creek, Clyde; Parramatta and Waterloo Swamps.

59 C. CERBERUS, Gosse, Rotifera, Vol. II., p. 34, pl. xvi., f. 3. Botanical Gardens, July 1886.

60 PROALES FELIS, Ehr. ; Hudson & Gosse, Rotifera, Vol. II., p. 36, pl. xviii., f. 17. Shea's Creek ; Waterloo Swamps, July 1886.

61 P. PETROMYZON, Ehr.; Hudson & Gosse. Rotifera, Vol. II., p. 36, pl. xiii., f. 9. In Sphagnum pools, Waterloo Swamps, July 1886.

62 P. PARASITA, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 39, pl. xviii., f. 11. Botany, near the Water-works, parasitical in Volvox, Aug. 1886.

63 FURCULARIA FORFICULA, Ehr. ; Hudson & Gosse, Rotifera, Vol. II., p. 41, pl. xx., f. 1. Moore Park, in rock pools, July 1886.

64 F. ENSIFERA, Gosse, Rotifera, Vol. II., p. 43, pl. xx., f. 3. In Sphagnum pools, Waterloo Swamps.

65 F. LONGISETA, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 46, pl. xviii., f. 16. In Shea's Creek at the back of Forsyth's Rope Works.

66 EOSPORA SP. I have only seen a few examples of this species and at the time I was unable to identify them. Botanical Gardens ; Moore Park, July 1886.

67 DIGLENA FORCIPATA, Ehr.; H. & G., Rotifera, Vol. II., p. 50, pl. xix., f. 2. In Sphagnum pools, Waterloo Swamps, Aug. 1886.
68 D. CATELLINA, Ehr. ; Hudson & Gosse, Vol. II., p. 58, pl. xix., f. 10. Waterloo Swamps, June 1889.

Sub-order Loricata.

Family RATTULIDÆ.

69 MASTIGOCERCA CARINATA, Ehr. ; Hudson & Gosse, Rotifera, Vol. II., p. 60, pl. xx., f. 7. Parramatta Park ; Wooli Creek, Cook's River.
70 M. ELONGATA, Gosse, Rotifera, Vol. II., p. 62, pl. xxi., f. 8. Botany Swamps, Aug. 1886.
71 M. BICORNIS, Ehr.; H. & G., Rotifera, Vol. II., p. 63. pl. xx., f. 5. Duck Creek, Clyde, April 1886.
72 RATTULIS TIGRIS, Müller ; H. & G., Rotifera, Vol. II., p. 65, pl. xx., f. 13. Botanical Gardens.
73 R. SEJUNCTIPES, Gosse, Rotifera, Vol. II., p. 66, pl. xx., f. 15. Pool behind Mount Steel, Moore Park.
74 CŒLOPUS TENUIOR, Gosse, Rotifera, Vol. II., p. 68, pl. xx., f. 19. In Sphagnum pools, Waterloo Swamps.
75 C. PORCELLUS, Gosse, Rotifera, Vol. II., p. 67, pl. xx., f. 18. Waterloo Swamps, June 1889.
76 C. BRACHYURUS, Gosse, Rotifera, Vol. II., p. 69, pl. xx., f. 21. Waterloo Swamps, June 1889.

Family DINOCHARIDÆ.

77 DINOCHARIS POCILLUM, Ehr.; H. & G., Rotifera, Vol. II., p. 71, pl. xxi., f. 1. Moore Park ; Waterloo Swamps ; Botanical Gardens, very common.
78 D. TETRACTIS, Ehr.; H. & G., Rotifera, Vol. II., p. 22, pl. xxi., f. 2. Rock pool, Moore Park, Aug. 1886.
79 D. SP. This is probably a new species, it differs from *D. Collinsii* and from *Polychaetus subquadratus* Perty, in the contour of the body and in the number of spines. I have only seen two examples under very unfavourable conditions and my drawings of the species are very imperfect as to details. Wooli Creek, near Cook's River ; Botany Bay.
80 D. TRUNCATUM, N. Sp. This species is very common and may be distinguished from *D. tetractis* by the much wider lorica, absence of transverse ridges, the abruptly truncated posterior end of the body, and the spineless foot. Botanical Gardens ; Waterloo Swamps, June and July 1889.
81 SCARIDIUM LONGICAUDUM, Ehr.; H. & G., Rotifera, Vol. II., p. 73, pl, xxi., f. 5. Shea's Creek ; Sphagnum pools, Waterloo Swamps.

82 Stephanops muticus, Ehr.; H. & G., Rotifera, Vol. II., p. 75, pl. xxi., f. 6. In Sphagnum pools, Waterloo Swamps.
83 S. longispinatus, ? Tatem, Quart. Jour. Micro. Sci., Vol. VII., 1867, p. 252. In Sphagnum pools, Waterloo Swmaps, rare.
84 S. unisetatus, Collins ; H. & G., Vol. II., p. 76, pl. xxi., f. 8. In Sphagnum pools, Waterloo Swamps.

Family SALPINADÆ.

85 Diaschiza paeta, Gosse, Rotifera, Vol. II., p. 79, pl. xxii., f. 11. Waterloo Swamps.
86 D. semipaeta, Gosse, Rotifera, Vol. II., p. 80, pl. xxii., f. 10. Wooli Creek, Cook's River.
87 Salpina eustala, Gosse, Rotifera, Vol. II., p. 85, pl. xxii., f. 5. Waterloo Swamps, June, 1889.

Family EUCHLANIDÆ.

88 Euchlanis dilatata, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 90, pl. xxiii., f. 5. Very common, Botanical Gardens; Waterloo Swamps ; Parramatta Park.
89 E. triquetra, Ehr. ; H. & G., Rotifera, Vol. II., p. 91, pl. xxiii., f. 4. In Sphagnum pools, Waterloo Swamps.
90 E.? sp. A small species, the lorica terminates in a single long acute point which is very finely tuberculate. Sphagnum pools, Waterloo Swamps.
91 E. lynceus, Ehr. ; Pritchard, Infusoria, 1861, p. 696, pl. xxxiv., f. 445-6. Duck Creek, Clyde.

Family CATHYPNADÆ.

92 Cathypna luna, Ehr.; H. & G., Rotifera, Vol. II., p. 94, pl. xxiv., f. 4. Frequent, Botanical Gardens ; Waterloo Swamps.
93 C. sp. The shape of this species is like that of *C. sulcata*, but it is more depressed posteriorly and without dorsal grooves. In Sphagnum pools, Waterloo Swamps.
94 Monostyla lunaris, Ehr.; H. & G., Rotifera, Vol. II., p. 98, pl. xxv., f. 2. In boggy pools, Waterloo Swamps.
95 M. bulla, Gosse, Rotifera, Vol. II., p. 99, pl. xxv., f. 4. Common, Botanical Gardens ; Waterloo Swamps.

Family COLURIDÆ.

96 Colurus uncinatus, Ehr.; Hudson & Gosse, Rotifera, Vol. II., p. 103. Duck Creek, Clyde.
97 C. bicuspidatus, Ehr. ; H. & G., Rotifera, Vol. II., p. 102, pl. xxvi., f. 2. Botanical Gardens.
98 C. amblytelus, Gosse, Rotifera, Vol. II., p. 104, pl. xxvi., f. 5.

99 METOPIDIA LEPADELLA, Ehr.; H. & G., Rotifera, Vol. II., p. 106, pl. XXV., f. 6. Waterloo Swamps.
100 M. SOLIDUS, Gosse, Rotifera, Vol. II., p. 106, pl. XXV., f. 11. Botanic Gardens; Moore Park.
101 M. OXYSTERNUM, Gosse, Rotifera, Vol. II., p. 107, pl. XXV., f. 8. Very common, Waterloo Swamps, June 1889.

Family PTERODINADÆ.

102 PTERODINA PATINA, Ehr.; H. & Gosse, Rotifera, Vol. II., p. 112, pl. XXVI., f. 11. Very common, Moore Park, in an old stone quarry known as the "Horse Pond."
103 P. REFLEXA, Gosse, Jour. Royal Micro. Soc., Feb. 1887, p. 3, pl. i., f. 8. Common in Sphagnum pools, Waterloo Swamps.

Family BRACHIONIDÆ.

104 BRACHIONUS PALA, Ehr.; H. & G., Rotifera, Vol. II., p. 117, pl. XXVII., f. 3, pl. XXVIII., f. 3. Frequent in stagnant water, off Bourke Street at the back of the Waterloo Public School.
105 B. BAKERI, Ehr.; H. & G., Rotifera, Vol. II., p. 120, pl. XXVII., f. 8. Off Bourke Street, Waterloo.
106 B. MILITARIS, Ehr.; Pritchard's Infusoria, 1861, p. 711, pl. XXXIX., f. 21-22. Wooli Creek, Cook's River.
107 NOTEUS QUADRICORNIS, Ehr.; H. & G., Rotifera, Vol. II., p. 121, pl. XXVIII., f. 5. Waterloo Swamps.

Family ANURÆADÆ.

108 ANURÆA HYPELASMA, Gosse, Rotifera, Vol. II., p. 123, pl. XXIX., f. 6. In shallow grassy pools, Moore Park.
109 A. ACULEATA, Ehr.; H. & G., Rotifera, Vol. II., p. 123, pl. XXIX., f. 4. Botanical Gardens; Sphagnum pools, Waterloo Swamps.
110 A. COCHLEARIS, Gosse, Rotifera, Vol. II., p. 124, pl. XXIX., f. 7. Very common, Waterloo Swamps.

ARTHROPODA.

ENTOMOSTRACA.

Order PHYLLOPODA.

Sub-order Branchiopoda.

1 APUS SP. I am not aware of any species being found near Sydney, but there are examples in the Australian Museum from Mossgeil; Macquarie River and the Hunter River district.

2 LEPIDURUS SP. There are three examples of this species in the Australian Museum, labelled New South Wales.

3 LIMNADIA STANLEYANA, King, Proc. Royal Soc., Tasmania, 1854-5, p. 70 ; Trans. Entom. Soc., N.S.W., Vol. I., p. 162, pl. xi. Coogee (King) ; Moore Park (W).

4 L. SORDIDA, King, P.R.S., Tasmania, 1854-5, p. 70; T. Entom. Soc., N.S.W. Pond near Bondi Bay, (King); Moore Park; off Bunnerong Road, (W.)

5 LIMNETIS MACLEAYANA, King, P.R.S., Tas., p. 70; T. Entom. Soc., N.S.W., Vol. I., p. 162, pl. xi. In shallow pools, Moore Park, (W.); Denham Court, Botany, (King).

6 ARTEMIA PROXIMA, King, P.R.S., Tasm., p. 70 ; T. Entom. Soc., N.S.W., Vol. I., p. 162, pl. xi. Salt Pans, Newington.

7 CHIROCEPHALUS SP. There are three examples in the Australian Museum, collected by the late Mr. W. McGillivray near Yass, N.S.W. It is distinct from the European species.

8 ESTHERIA SP. This genus is represented by two or three species, but they are from the interior of the Colony.

Sub-order Cladocera.

DAPHNIIDÆ.

9 DAPHNIA CARINATA, Muller ; R. L. King, P.R. Soc., Tasmania 1852-3, p. 246, pl. i., var. GRAVIS, p. 252, pl. vi. A, var. CEPHALATA, pl. vi. B ; Proc. Entom. Soc., N.S.W., p. 164, pl. xii. Abundant in the Waterloo Swamps, (W.); Botany Swamps ; Parramatta ; Campbelltown, (King).

10 D. ELIZABETHÆ, King, P.R. Soc., Tasm., 1852-3, p. 247, pl. ii., var. ACUTIROSTRATA, p. 254, pl. vi. c. Sydney ; Newtown Parramatta, (King) ; Waterloo Swamps ; Wooli Creek, and at Clyde (W.)

11 D. HONORATA, King, P.R.S., Tasm., 1852-3, p. 249, pl. iii. Sydney ; Parramatta, (King); off Bourke Street, (W.)

12 D. MUCRONATA, Muller ; King, P.R.S., Tasm., 1852-3, p. 255, pl. vi. E. South Creek ; Parramatta, (King); Moore Park.

13 MOINA LEMNÆ, King, P.R.S., Tasm., 1852-3, p. 250, pl. iv. In a small pond in a garden at Cook's River, (King); off Bourke Street, at the back of the Public School, Waterloo, (W.)

14 M. MACLEAYII, King, l.c., p. 251, pl. v. Pond near Elizabeth Bay, (King).

15 MACROTHRIX SPINOSA, King, l.c., p. 256, pl. vi., F. South Creek, (King).

LYNCEIDÆ.

16 EURYCERCUS SPINOSUS, King, l.c., p. 257, pl. vii., D. Pond on Liverpool Road ; Botany, (W.)

17 E. CUNNINGHAMI, King, l.c., p. 257, pl. vii., A. Pond in Botanic Gardens.
18 E. COOKII, King, l.c., Proc. Entom. Soc., N.S.W., Vol. I., p. 165, pl. xiii. Botany Swamps.
19 CHYDORUS ANGUSTUS, King, l.c., p. 258, pl. vii., B. In a pond on Botany Road, (King).
20 C. LEONARDII, King, l.c., p. 25, pl. vii. C. Near Waverley Mills; the Waterfall, St. Leonards; South Creek; Denham Court, (King).
21 ALONA BAIRDII, King, l.c., p. 259, pl. viii., A. Lachlan Swamp, (King).
22 A. PULCHELLA, King, l.c., p. 260, pl. viii., B. St. Leonards, North Shore, (King).
23 A. DIAPHANA, King, l.c., p. 260, pl. viii., C. Pond near Sydney.
24 A. KARUA, King, l.c., p. 260, pl. viii., D. River Karua, near Stroud.
25 A. MASCULA, King, l.c., p. 261, pl. viii., E. In South Creek, at Dunheved, (King).
26 DUNHEVEDIA CRASSA, King, l.c., p. 261, pl. vii., F. South Creek, at Dunheved; Varroville, near Denham Court, (King).
27 D. PODAGRA, King, l.c., p. 261, pl. vii., E. Ponds behind the old Military Barracks at Parramatta, (King.)

Order OSTRACODA,
Family CYPRIDÆ.

28 CYPRIS CARINATA, King, P.R.S., Tasmania, 1854-5, p. 61, pl. ix. C, 1-4. Denham Court in a pond about a mile from the turnpike road, (King).
29 C. BENNELONG, King, l.c., 1854-5, p. 63, pl. x. A. Sydney Cove, in a pond close to the edge of the saltwater, (King).
30 C. CLARKII, King, l.c., 1854-5, p. 63, pl. x. E. Sydney and Parramatta, (King).
31 C. SCOTTII, King, l.c., 1854-5, p. 63, pl. x. C. Denham Court with *C. carinata*, (King).
32 C. MINNA, King, l.c., 1854-5, p. 64, pl. x. B; var. (a) CASTANIA, Varroville, Denham Court; var. (b) BRUNNEA, in the Domain, Sydney, (King).
33 C. LATERARIA, King, l.c, 1854-5, p. 65, pl. x. G. Pond in a brickfield near Sydney, (King).
34 C. SYDNEIA, King, l.c., 1854-6, p. 65, pl. x., M. In a swamp near Woolloomooloo Bay, (King).
35 C. CANDONIOIDES, King, l.c., 1854-5, p. 66, pl. x. F. Varroville, (King).
36 C. VARROVILLIA, King, l.c., 1854-5, p. 66, pl. x. D. Varroville, (King).

37 CANDONA STANLEYANA, King, l.c., 1854-5, p. 66, pl. x. H. Ponds on the top of sandstone rocks overlooking the sea near Coogee, associated with *Limnadia*, and *Newnhamia fenestrata*.

38 C. LUTEA, King, l.c., p. 67, pl. x. G. In a pond near Sydney Cove with *C. Bennelong*, (King).

39 NOTODROMUS FENESTRATA, King, l.c., p. 67, pl. ix. A, 1-2, (as *Newhamia*). Common in ponds, Sydney, (King.)

40 N. GULIEMI, King, l.c., p. 67. Dunheved, South Creek in a shallow pond, (King).

Order COPEPODA.

41 CYCLOPS AUSTRALIS, King, l.c., 1854-5, p. 74. Abundant, Waterloo Swamps, (W.); common in ponds, (King).

42 DIAPTOMUS POLLUX, King, ? l.c., 1854-5, p. 74. Parramatta; Sydney.

43 D. UXORIUS, King, ? l.c., 1854-5, p. 74. Port Stephens.

44 D. MARIA, King, l.c., 1854-5, p. 74. Denham Court.

45 D. COOKII, King, l.c. Locality ?

Tribe MACROURA.

Family ASTACIDÆ.

46 ASTACOPSIS SERRATUS, Shaw, Zool. of New Holland, pl. viii.; Haswell, Cat. Crust., p. 164. Waterloo Swamps, Mossman's Bay in the fresh-water Creek, (W.)

47 A. PARRAMATTENSIS, Spence Bate, C.R., Vol. xxiv., p. 202, pl. xxvii., f. 1. Parramatta River.

48 A. SYDNEYENSIS, Spence Bate, C.R., Vol. xxiv., p. 204, pl. xxii., f. 2. Sydney. It seems to me that the two last are only the young of the first which is a very variable species.

49 A. PLEBEJUS, Hess., Arch. fur Natur., 31, p. 164, pl. vii., f. 17, 1865; Haswell, Cat. Crust., p. 175. Sydney ? (Hess.)

Family PALÆMONIDÆ.

50 PALÆMON SP. Parramatta Park.

MOLLUSCA (Fresh-water).

Class PELECYPODA.

Order SIPHONIDA.

Sub-order Integripalliata.

Family CYRENIIDÆ.

1 CORBICULA NEPEANENSIS, Lesson, Voy. "Coquille," Vol. II., p. 428, pl. xiii., f. 14 ; Smith, J. Linn. Soc., London, Vol. XVI., p. 300, pl. vii., f. 26-27. South Creek ; Nepean River.

2 SPHÆRIUM MACGILLIVRAYI, E. A. Smith, P.L.S., Vol. XVI., p. 305, pl. vii., f. 34. Nepean River at Penrith.

3 PISIDIUM ETHERIDGEI, Smith, J.L.S., Vol. XVI., p. 306, pl. vii., f. 35. In a pond at the back of the Randwick toll-bar house, (W.)

Order ASIPHONIDA.

Sub-order Homomyaria.

Family UNIONIDÆ.

4 UNIO AUSTRALIS, Lamarck ; Hanley, Recent Shells, p. 192, pl. xxi., f. 25. South Creek.

5 U. DEPRESSUS, Lamarck ; = *U. cultelliformis*, Conrad, Jour. Acad. N. Sci., Phil., 1854, p. 295, pl. xxvi., f. 2, = *U. Parramattensis*, = *U. Nepeanensis.* Abundant in the river at Parramatta.

Class GASTEROPODA.

Sub-Class PROSOBRANCHIATA.

Order PECTINIBRANCHIATA.

Family RISSOIDÆ.

Sub-Family BYTHININÆ.

6 BYTHINIA AUSTRALIS, Tryon, Amer. Jour. Conch., Vol. I., p. 220, pl. xxii., f. 7, (Gabbia). Abundant in waterholes in Parramatta Park, (W.)

Family ASSIMNINIDÆ.

7 ASSIMNIA TASMANICA, Tenison-Woods, P.R.S., Tasmania, 1875 p. 79. Mangrove Swamps, Cook's River.

Family TRUNCATELLIDÆ.

8 TRUNCATELLA VALIDA, Pfeiffer, Monographia Auriculaceorum, Appendix II., p. 184. Within the tidal zone, Elizabeth Bay ; Shark Island, (Brazier.)

9 T. BRAZIERI, Cox, Monograph Aust. Land Shells, p. 93, pl. XV., f. 12 a and b. About one foot above high-water mark Miller's Point, (Brazier).

Sub-Class PULMONATA.

Order BASOMMATOPHORA.

Sub-order Hydrophila.

Family LIMNÆIDÆ.

Sub-Family LIMNÆINÆ.

10 LIMNÆA LESSONI, Deshayes, Magasin de Zool., 1830, p. 16, f. 1-2; Lesson, Voy. "Coquille," pl. xv., f. 1. South Creek; Parramatta.

11 L. BRAZIERI, Smith, J.L.S., Vol. XVI., p. 274, pl. v., f. 15. Glebe Point on a flat rock with clear water running over them, (Brazier).

12 PHYSA LESSONI, Smith, J.L.S., Vol. XVI., p. 277, pl. v., f. 21-22. South Creek.

13 P. GIBBOSA, Gould; Sow., Conch. Icon., Vol. XIX., pl. iv., f. 27; Smith, l.c., p. 278, pl. vi., f. 3-6, var. ADAMSIANA, Canefri. Waterloo Swamps.

14 P. DISPAR, Sowerby, Conch. Icon., Vol. XIX., pl. viii., f. 66 a-b. Sydney, (Sowerby).

15 P. BULLATA, Sowerby, Conch. Icon., Vol. XIX., pl. xii., f. 97. Botanical Gardens, (Brazier.)

Sub-Family PLANORBINÆ.

16 SEGMENTINA AUSTRALIENSIS, Smith, l.c., p. 296, pl. vii., f. 7-10. Common in Shea's Creek at the back of Forsyth's Rope Works, Bourke Street.

Sub-Family ANCYLINÆ.

17 ANCYLUS AUSTRALICUS, Tate, Trans. Roy. Soc., S. Australia, Vol. III., 1880, p. 102, pl. iv., f. 4 a-b; Smith, l.c., p. 297, pl. vii., f. 36-37. South Creek, (Brazier).

18 A. SMITHII, Cox, P.L.S., N.S.W., part iii., 1889. On Vallisneria, Port Hacking.

POLYZOA (Freshwater).

CTENOSTOMATA.

Family VICTORELLIDÆ.

1 VICTORELLA PAVIDA, ? Saville Kent, Quart. Jour. Micro. Sci., Vol. x., New Series, 1870, p. 34; Hincks, Brit. Marine Polyzoa, p. 559, pl. lxxix., f. 4-7; Bousfield, Ann. & Mag. N.H., Vol. XVI., Ser. 5, p. 401, pl. xii., f. 1-3. In brackish water on a species of Nitella in company with a tube dwelling rotifer Œcistes sp., Cook's River.

Order PHYLACTOLÆMATA.

Family PLUMATELLIDÆ.

2 PLUMATELLA APLINII, McGillivray, P.R. Soc., Vict., 1860-1, Vol. v., p. 204. On weeds in Wooli Creek, Cook's River; Waterloo Swamps ; Parramatta.

3 P. SP. On the stems of rushes in the Horse Pond, Moore Park.

4 P. SP. On the stems of rushes and the leaf-stalks of Marsilia, Duck Creek, Clyde.

5 ALCYONELLA SP. The statoblasts of this species resemble those of *Plumatella fruticosa* in shape and are much narrower than those of *A. fungosa.*

6 LOPHOPUS LENDENFELDI, S. O. Ridley, J. Linn. Soc., London, Vol. XX., p. 61, pl. ii. I found this species in January 1886, on the stems of aquatic plants in Parramatta Park near the footbridge in deep water, and I killed specimens with the tentacles fairly extended, some of which I gave to Dr. R. v. Lendenfeld when leaving this country, asking him to hand them over to Prof. Allman for description. When he arrived in London he appears to have presented a specimen to the British Museum, so that it has been inferred to be his own collecting, and in consequence the name *L. Lendenfeldi* has been given to it.

7 FREDERICELLA SP. This is closely allied to *F. sultana*, but the statoblasts are nearly round and not bean shaped. In Shea's Creek, Waterloo Swamps, abundant in 1884. The same or another species is found in Parramatta Park near the footbridge.

ERRATA.

Page 169, Line 17, for Vol. XXIX., read Vol. XXVII.
„ 171, No. 8, for semilulum, read *seminulum.*
„ 172, „ 23, „ pilulifa, read *pilulifera.*
„ 173, „ 48, „ Ehrembergina, read Ehrenbergina.
„ 180, „ Chondrosspongiæ, read *Chondrospongiæ.*
„ 186, „ 195, „ aruscula, read arbuscula.
„ 186, „ 208, „ Thallasodendron, read Thalassodendron.
„ 203, „ 69, „ Uniophra, read *Uniophora.*
„ 203, „ 73, „ Centrosphephanus, read *Centrostephanus.*
„ 218, „ 110, „ macullta, read *maculata.*
„ 218, „ 110, „ Cci., read *Sci.*
„ 252, „ 306, „ Pearse. read *Pease.*
„ 293, „ 179, „ Moroubra, read *Maroubra.*
„ 295, „ 25, „ Green Joint, read *Green Point.*